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Model State Information System Training Program

Volume IX

Part I

OPERATIONS MANUAL

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This manual was designed to give the operations staff of a user facility a complete picture of the Model State Information System (MSIS). The system overview will present material pertinent to the operation of MSIS programs. A general description of each subsystem is given to give the operator information on the basic functions of the subsystem as a whole. And complete descriptions of each of the program modules are formated to state the functions of the program, its inputs, processing options, if any, and outputs with the exhibit numbers for reports.

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Bruce O. Keith
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Purpose

This manual was designed to give the operations staff of a user facility a complete picture of the Model State Information System (MSIS) as it was designed, programmed and documented by the SouthWestern Ohio Regional Computer Center (SWORCC) of Cincinnati, Ohio.

The System Overview will present material pertinent to the operation of MSIS programs. A general description of each of the permanent files and tables is given along with their respective naming conventions. Most of the programs have processing options to control their input and/or output. A series of standard error messages was developed to handle any error that might occur on input of these options. The user will have to determine whether the operator will be allowed to correct processing options errors or if it will be the responsibility of a control clerk.

A general description of each subsystem is given to give the operator information on the basic functions of the subsystem as a whole. Complete descriptions of the various procedures defined by MSIS follow, including step by step functions, inputs, outputs and restart procedures.

Complete descriptions of each of the program modules are formatted to state the functions of the program, its inputs, processing options, if any, and outputs with the exhibit numbers for reports. An I/O Chart for each program is included with the file program names to aid in job control language preparation and maintenance. The chart will also show the destination of any output files if they are to be used as input to another program. Error messages other than standard errors and their remedial actions, if any, are also supplied.

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System Overview

Minimum Hardware Configuration Requirements

Mainframe:	Byte oriented medium to large scale IBM System 360/50 or larger IBM System 370/145 or larger or equivalent word oriented mainframe
Operating System:	OS type will support MFT or will support MVT or will support VS1 or will support VS2 (SVS and MVS)
Core Storage:	512K bytes of which 150K is accessable by a user program
Tape Drives:	3 at any one time
Disk Drives:	3 at any one time: 1 for the operating system 1 for temporary work space 1 for MSIS source and load libraries, files and tables
Card Reader/Punch	1
Line Printer	1 with 132 print positions

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Naming Conventions

Each permanent file and table has associated with it a three letter abbreviation used in the full programming name as an abbreviation for the file and, where necessary, a two letter mnemonic prefix used in the file's data element mnemonic names.

File Name	File ID	Mnemonic Prefix	Subsystem
Code Value Table	CVT	(none)	MSIS
Compliance Status File	CSF	(none)	WAQC
Data Element Table	DET	(none)	MSIS
Deviations File	DVF	(none)	FEDR
Enforcement Actions File	EAF	EA	ENAC
Error Message Table	EMT	(none)	MSIS
Laboratory Table	LBT	LB	WAQC
Optional Error File	OEF	(none)	MSIS
Operator and Mailing File	OMF	OM	OPER
Public History File	PHF	PH	PWSI
Periodic Sample File	PSF	PS	WAQC
Public Water File	PWF	PW	PWSI
Public Water Table	PWT	(none)	PWSI
Regulations File	RGF	RG	REGS
Sample Analysis File	SAF	SA	WAQC
Standard Error File	SEF	(none)	MSIS
Standard History File	SHF	SH	MSIS
Variances and Exemptions File	VEF	VE	VAEX
Violations File	VIF	VI	WAQC

Files and Tables

The following are the permanent files and tables of MSIS. They are listed by the subsystem responsible for the files' creation.

1. Public Water System Inventory Subsystem (PWSI)

   a. Public Water File (PWF), Exhibit PWSI.200, Data Element Catalogue Numbers 145 through 264, 701 and 702: The PWF is a variable length, sequential access file of detailed information about all Public Water Systems in the state.

   b. Public Water Table (PWT), Exhibit PWSI.201, Data Element Catalogue Numbers 265 through 278, and 703: The PWT is a fixed length, direct access file of selected information from the PWF used primarily for supplying information on reports throughout MSIS.

   c. Public History File (PHF), Exhibit PWSI.202, Data Element Catalogue Numbers 310 through 318: The PHF is a fixed length, sequential access history file of all modifications to the PWF used as an audit trail of the file.

2. Regulations Subsystem (REGS)

   a. Regulations File (RGF), Exhibit 250 through 257, Data Element Catalogue Numbers 1 through 144: The RGF is a fixed length, sequential access file of all state and federal drinking water quality regulations.

3. Water Quality Compliance Subsystem (WAQC)

   a. Periodic Sample File (PSF), Exhibit WAQC.252, Data Element Catalogue Numbers 399 through 429, 817 and 818, and 900 through 902: The PSF is fixed length, sequential access file of all water quality sample transactions.

   b. Sample Analysis File (SAF), Exhibit WAQC.254, Data Element Catalogue Numbers 356 through 392, 807 through 816. The SAF is a fixed length, sequential access file containing a record for each chemical or radiological sample and a summary record of bacteriological and turbidity samples. The SAF is a summary of the PSF used to reduce the great numbers of sample records kept.

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c. Violations File (VIF), Exhibit WAQC.255, Data Element Catalogue Numbers 326 through 355 and 800 through 806, and 819. The VIF is a fixed length, sequential access file of the violations to the drinking water regulations.

d. Laboratory Table (LBT), Exhibit WAQC.250, Data Element Catalogue Numbers 319 through 325 and 820: The LBT is a fixed length, direct access file of laboratories authorized to analyze water samples.

e. Compliance Status File (CSF), Exhibit WAQC.257, Data Element Catalogue Numbers 516 through 533. The CSF is a fixed length, sequential access file of information which deals with compliance determination.

4. Federal Reporting Subsystem (FEDR)

a. Deviations File (DVF), Exhibit FEDR.202, Data Element Catologue Numbers 492 through 511: The DVF is a fixed length, sequential access file of violations, variances, and exemptions. The DVF is created in FEDR for submission to EPA.

5. Standard Processing Subsystem (MSIS)

a. Code Value Table (CVT), Exhibit MSIS.206, Data Element Catalogue Numbers 279 through 284: The CVT is a fixed length, sequential access file of data element values used in editing in MSIS.

b. Data Element Table (DET), Exhibit MSIS.201, Data Element Catalogue Numbers 285 through 293: The DET is a fixed length, sequential access file of data element information used in MSIS.

c. Error Message Table (EMT), Exhibit MSIS.205, Data Element Catalogue Numbers 294 through 297: The EMT is a fixed length, sequential access file of errror codes and associated messages used in standard error processing.

d. Optional Error File (OEF), Exhibit MSIS.215, Data Element Catalogue Numbers 308 and 309: The OEF is a fixed length, sequential access file of errors created during MSIS processing used for correcting the errors using text editing facilities.

e. Standard Error File (SEF), Exhibit MSIS.207, Data Element Catalogue Numbers 298 through 300: The SEF is a fixed length, sequential access file of errors created during processing in MSIS.

f. Standard History File (SHF), Exhibit MSIS.202 Data Element Catalogue Numbers 301 through 307: The SHF is a fixed length, sequential access file of changes made to the Violations File (VIF), the Enforcement Actions File (EAF), the Variances and Exemptions File (VEF), and the Operator and Mailing File (OMF).

6. Variances and Exemptions Subsystem (VAEX)

a. Variances and Exemptions File (VEF), Exhibit VAEX.212, Data Element Catalogue Numbers 455 through 477: The VEF is a variable length, sequential access file of the variances and exemptions granted by the state to public water systems.

7. Enforcement Actions Subsystem (ENAC)

a. Enforcement Actions File (EAF), Exhibit ENAC.202, Data Element Catalogue Numbers 430 through 454: The EAF is a variable length, sequential access file of enforcement actions being monitored by the state.

8. Operator and Mailing Subsystem (OPER)

a. Operator and Mailing File (OMF), Exhibit OPER.200, Data Element Catalogue Numbers 478 through 491: The OMF is a variable length, sequential access file of mailing information and records of certified operators.

(Sanitary Survey Subsystem (SRVY) does not create any permanent files.)

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Standard Error Messages for Processing Options

Any program which uses processing options records may produce any of the following messages:

Standard Error Messages & Remedial Actions for PROC Records

MESSAGE: ERROR - TWO PROC RECORDS SUPPLIED
REMEDIAL ACTION: return both records to data entry and re-enter the Processing Options record which is correct.

MESSAGE: ERROR - NO PROCESSING OPTION RECORDS WERE PROVIDED
REMEDIAL ACTION: obtain Processing Options from data entry.

MESSAGE: ERROR - PROC TYPE NOT VALID IN OPTION RECORD
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - PROC RECORD CONTAINS AN INVALID DATE
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

Standard Error Messages & Remedial Actions for SORT Records

MESSAGE: ERROR - MAXIMUM SORT-KEY SIZE HAS BEEN EXCEEDED
REMEDIAL ACTION: return option to data entry.

MESSAGE: ERROR - SORT SEQUENCE FIELD NOT NUMERIC
REMEDIAL ACTION: check for keypunch error, if not return option to data entry.

MESSAGE: ERROR - TWO SORT FIELDS HAVE THE SAME SEQUENCE NUM
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - SORT SEQUENCE NUMBER GREATER THAN MAXIMUM
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - SORT OPTION MNEMONIC-NAME IS INVALID
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - SORT MODE IS NOT ASCENDING OR DESCENDING
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - NO CONSECUTIVE SORT SEQUENCE VALUES
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

Standard Error Messages & Remedial Actions for SEL1 & SEL2 Records

MESSAGE: ERROR - INVALID FILE-ID IN SEL1 RECORD
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

MESSAGE: ERROR - TWO SEL1 RECORDS HAVE THE SAME LOGIC ID
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

MESSAGE: ERROR - MNEMONIC NAME IS SEL1 RECORD IS INVALID
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

MESSAGE: ERROR - SEL1 VALUE TOO LONG FOR SPECIFIED MNEMONIC
REMEDIAL ACTION: check for keypunch error, if not return
option to data entry.

MESSAGE: ERROR - NO SEL1 OPTION RECORD WAS PROVIDED
REMEDIAL ACTION: return all options to data entry.

MESSAGE: ERROR - LOGIC ID NOT 1 THRU 35 IN SEL1 RECORD
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

MESSAGE: ERROR - SEL1 DATE-FIELD VALUE IS NOT A VALID DATE
REMEDIAL ACTION: check for valid six character date, if
not, return option to data entry.

MESSAGE: ERROR - SEL1 CATALOGUE-NUMBER VALUE NOT NUMERIC
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

MESSAGE: ERROR - SEL2 OPERAND HAS NO MATCHING SEL1 RECORD
REMEDIAL ACTION: return all options to data entry.

MESSAGE: ERROR - NO SEL2 OPTION RECORD WAS PROVIDED
REMEDIAL ACTION: return all options to data entry.

MESSAGE: ERROR - MORE THAN 35 SEL2 RECORDS WERE PROVIDED
REMEDIAL ACTION: return all options to data entry.

MESSAGE: ERROR - SEL2 RECORD HAS INVALID RELATIONAL SYMBOL
REMEDIAL ACTION: check for keypunch error, if not, return
option to data entry.

Restart Procedures

MSIS has two types of restarts. The first is a RESTART processing options record which is used when creating turnaround documents. The second is a system restart which may occur as a result of machine failure or program abend.

If a machine failure or printer error occurs during the printing of turnaround documents, MSIS uses a RESTART processing options record. All that is necessary to restart the program is to enter the page number where the restart is to begin in the RESTART card. The program will then restart printing with that page and proceed to the normal end of job.

As a general rule, if a system restart is necessary, the entire jobstream must be entered again. If system restart was necessitated due to a program abend (abnormal termination), it may be necessary to have program modifications made before the job stream can be rerun. All files that were created during the run in error must be scratched. Make sure that all of the original input is re-catalogued and is used so there will be no chance of further system failure or duplication of output.

Specific system restart instructions will appear in the Subsystem Flow section within each subsystem description

Descriptions of Program Modules

Public Water System Inventory Subsystem (PWST)

General Description

The Public Water System Inventory Subsystem (PWSI) is a central to and a mandatory subsystem of the Model State Information System (MSIS). This subsystem maintains descriptive data about Public Water Systems (PWS's) on a Public Water File (PWF). This file is also used by other subsystems. The principal function of the PWSI Subsystem is to create and maintain this file and to display its contents upon request.

The PWF is used in the following subsystems:

- Water Quality Compliance Subsystem (WAQC) uses the PWF to identify state defined regulation criteria for each specific PWS.
- Federal Reporting Subsystem (FEDR) used the PWF to report on the individual PWS's which were modified in a specific reporting period.
- Sanitary Survey Subsystem (SRVY) uses the PWF to selectively weigh and list PWS's for survey purposes according to specific criteria.

In addition, some basic descriptive data is maintained in a direct access file, the Public Water Table (PWT), that is used as a verification aid by these subsystems: Enforcement Actions Subsystem, Variances and Exemptions Subsystem, and Operator and Mailing Subsystem.

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

- PWSICONV - PWF Conversion
- PWSIPHFP - PHF Purge
- PWSIPWTC - Create PWT
- PWSISELH - PHF Select
- PWSISELT - PWF Select
- PWSIUPD1 - PWF Update
- PWSIUPD2 - PWF Update Reports

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PROC Name: PWSICONV

Function: Job stream to execute program PWSI120 which converts the National Inventory File.

Step 1: This step executes program PWSI120 which converts the National Inventory File.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSICONV

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Convert the National Inventory File	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
	PWSI.305	Conversion Data Report	---	---	STD	1	---	----	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSICONV

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes PWSI120 which converts the National Inventory File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PROC	PWSI.112	YES*	Contains Processing Date and other criteria
	CVTPW	MSIS.206	YES	Contains Code Value Table
	PWPTRAN	PWSI.213 thru PWSI.229	YES*	Contains transaction information

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSICONV

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI120 which converts the National Inventory File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PWSCONV	PWSI.200	YES	Contains converted data
	REPORT	PWSI.305	YES	Conversion Data Report
		MSIS.309	YES	Standard Error Report of Processing Records and associated messages

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSICONV

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWFTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 1 OF 1

PROC Name:	PWSIPHFP
Function:	Job stream to execute the Public History File Purge program.
Step 1:	This step executes program PWSI090 which is the Public History File purge program.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIPHFP

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: The Public History File Purge Program

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
	PWSI.306	PHF Purge Report	---	---	STD	---	---	---	---	Requestor
	PWSI.312	PHF Purge Statistics Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPHFP

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes PWSI090 which is the Public History File Purge Program

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PHF	PWSI.202	YES	Contains Public History File data
	PROCOP	PWSI.103	YES*	Contains the Processing Date and other criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPHPP

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes PWSI090 which is the Public History File Purge Program

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PHFOUT	PWSI.202	YES	Contains Public History File data
	PHPUROUT	PWSI.202	YES	Contains Public History File Purge data
	PRINTER	PWSI.306	YES	PHF Purge Report
		MSIS.309	YES	Standard Error Report of Processing Records and associated messages

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PMSIPHFP

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PHPUROUT MSIS.PHF DDNAME=PHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.PHF DDNAME=PHF C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PHPUROUT MSIS.PHF DDNAME=PHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PHF DDNAME=PHF C. Restart the job from step 1.

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PROC Name: PWSIPWTC

Function: Job stream to create the Public Water Table (PWT).

Step 1: This step scratches and uncatalogues the old Public Water Table (PWT).

Step 2: This step executes program PWSI130 which creates the Public Water Table.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPWTC

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes Program PWSI130 which creates the Public Water Table	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PWTFIL	PWSI.201	YES	Contains Public Water Table (PWT) Records
	PRINTER	PWSI.314	YES	PWT Create Statistics Report
		MSIS.309	YES	Standard Error Report of Processing Options Records and associated messages

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIPWTC

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Create the Public Water Table (PWT)

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor
	PWSI.314	PWT Create Statistics Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPWTC

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Scratch and uncatalogues the old Public Water Table	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	DD1	PWSI.201	YES	Utility IEFBR14 to scratch and uncatalogue the Old Public Water File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPWTC

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes Program PWSI130 which creates the Public Water Table

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
2	PWFFIL		PWSI.200	YES	Contains Public Water Files (PWF) Records
	PROCARD	(PROC)	PWSI.105	YES*	Contains processing date and other criteria
		(SORT)	PWSI.100	OPTIONAL*	Identifies fields by which outputs are sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIPWTC

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program PWSI130 which creates the Public Water Table

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PWTFIL	PWSI.201	YES	Contains Public Water Table (PWT) Records
	PRINTER	PWSI.314	YES	PWT Create Statistics Report
		MSIS.309	YES	Standard Error Report of Processing Options Records and associated messages

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIPWTC

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PMSIPWTC

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: PWSISEIH

Function: Job stream for the Public History File Select program.

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program PWSI080 which is the Public History File select program.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSISELII

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Public History File Select Program

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	Requestor
2	MSIS.306	Standard Selection Statistics/ Sort Sequence Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	PWSI.311	PHF Selection Report	---	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELH

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sort Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (SORT)	PWSI.100	OPTIONAL*	Identifies fields by which outputs are sorted
	(PROC)	PWSI.101	YES*	Contains processing date and other criteria
	(SEL1)	PWSI.107	YES*	Identifies fields to be selected
	(SEL2)	PWSI.108	YES*	Supplies relational operands which are applied to the selected fields

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELH

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Processing Options using Sort06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT (SORT)	PWSI.100	YES	Contains sorted PROC, SORT, SEL1, and SEL2 entries.
	(PROC)	PWSI.101	YES	
	(SEL1)	PWSI.107	YES	
	(SEL2)	PWSI.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELH

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes PWSI080 which is the Public History File Select Program

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PHFFIL	PWSI.202	YES	Contains Public History File data
	DETPHFIL	MSIS.201	YES	Contains Data Element Table data
	PROCOP (SORT)	PWSI.100	YES	Contains sorted PROC, SORT, SEL1, and SEL2 entries
	(PROC)	PWSI.101	YES	
	(SEL1)	PWSI.107	YES	
	(SEL2)	PWSI.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELH

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI080 which is the Public History File Select Program

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER2	PWSI.311	YES	Public History File Selection Report
	PRINTER	MSIS.306	YES	Standard Selection Statistics/SORT Sequence Report
		MSIS.309	YES	Standard Error Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PMSISELH

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PHFPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PHFPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELH

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.PHFPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: PWSISELT

Function: Job stream for the Public Water File (PWF) select program.

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program PWSI020 which is the PWF Select program.

Step 3: This step sorts the processing options into the proper sequence for processing.

Step 4: This step executes program PWSI030 which produces the Condensed Report of the PWS Inventory File.

Step 5: This step sorts the processing options into the proper sequence for processing.

Step 6: This step executes program PWSI040 which produces the Production and Capacity Report of the PWS Inventory.

Step 7: This step sorts the processing options into the proper sequence for processing.

Step 8: This step executes program PWSI050 which produces the State Discretionary Data Report.

Step 9: This step sorts the processing options into the proper sequence for processing.

Step 10: This step executes program PWSI060 which can produce the Comprehensive Report and/or the Turnaround Document Public Water System Status and Entry Form.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSISELT

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Public Water File (PWF) Select Program	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor
	MSIS.312	Standard Selection Statistics Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	PWSI.300	Condensed Report	---	---	STD	4	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
5	---	---	---	---	---	5	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSISELT

RUN FREQUENCY: Upon Request	JOB DUE OUT
JOB DESCRIPTION: Public Water File (PWF) Select Program	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
6	PWSI.302	Production Data Report	---	---	STD	6	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	PWSI.301	State Discretionary Data Report	---	---	STD	8	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSISELT

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Public Water File (PWF) Select Program		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
9	---	---	---	---	---	9	---	---	---	---
10	PWSI.303	Comprehensive Report	---	---	STD	10	---	---	---	Requestor
	PWSI.400 PWSI.401	Turnaround Document	---	8 lines per inch # MS01	STD	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options for PWSI020

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	(SORT)	PWSI.100	OPTIONAL*	Identifies fields by which outputs are sorted
		(PROC)	PWSI.101	YES*	Contains processing date and other criteria
		(SEL1)	PWSI.107	YES*	Identifies fields to be selected
		(SEL2)	PWSI.108	YES*	Supplies relational operands which are applied to the selected fields

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options for PWSI020

STEP	OUTPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	(SORT)	PWSI.100	YES	Contains sorted PROC, SORT, SEL1, and SEL2 entries
		(PROC)	PWSI.101	YES	
		(SEL1)	PWSI.107	YES	
		(SEL2)	PWSI.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes Program PWSI020 which is the PWF select program

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
2	PWFIFIL		PWSI.200	YES	Contains Public Water File data
	DETPWFIL		MSIS.201	YES	Contains Data Element Table data
	PROCOP	(SORT)	PWSI.100	YES	Contains sorted PROC, SORT, SEL1 and SEL2 entries
		(PROC)	PWSI.101	YES	
		(SEL1)	PWSI.107	YES	
		(SEL2)	PWSI.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program PWSI020 which is the PWF Select Program

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PWFOFIL	PWSI.200	YES	Contains Public Water File data
	PROC30FL	PWSI.206	YES	Condensed/Production Data/Discretionary Report File header record layout
	PROC40FL	PWSI.206	YES	
	PROC50FL	PWSI.206	YES	
	PROC60FL	PWSI.204	YES	Comprehensive Report File header record layout
	PWFOFIL	PWSI.200	YES	Contains Public Water File data
	PRINTER	MSIS.309	YES	Standard Error Report of processing records and associated messages
		MSIS.312	YES	Standard Selection Statistics Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Processing Options using Sort06	

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	(PROC)	PWSI.105	OPTIONAL*	Contains Processing Date and other criteria
		(SORT)	PWSI.239	OPTIONAL*	Identifies fields by which outputs are sorted
			PWSI.206	OPTIONAL*	PROC30 - Condensed/Production Data/Discretionary Report File/header record layouts

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT (PROC)	PWSI.105	YES	Contains the sorted Processing Options
	(SORT)	PWSI.239	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes PWSI030 which produces the Condensed Report of the PWS Inventory File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	DETREC	MSIS.201	YES	Contains the Public Water Data Element Table
	PWSISELT	PWSI.200	YES	Contains the Public Water File (PWF) - Type File
	OPTIONS	PWSI.105	YES	Contains the sorted Processing Options
		PWSI.100	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI030 which produces the Condensed Report of the PWS Inventory File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINT1	PWSI.300	OPTIONAL	Prints the Condensed Report
		MSIS.309 MSIS.311	YES YES	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN (PROC)	PWSI.105	OPTIONAL*	Contains Processing Date and other criteria
	(SORT)	PWSI.239	OPTIONAL*	Identifies fields by which outputs are sorted
		PWSI.206	OPTIONAL	PROC40 - Condensed/Production Date/Discretionary Report File/header record layouts

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT (PROC)	PWSI.105	YES	Contains the sorted Processing Options
	(SORT)	PWSI.239	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI040 which produces the Production and Capacity Report of the PWS Inventory

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETREC	MSIS.201	YES	Contains the Public Water Data Element Table
	PWFTYPE	PWSI.200	YES	Contains the Public Water File (PWF) - Type File
	OPTIONS (PROC)	PWSI.105	YES	
	(SORT)	PWSI.239	YES	Contains the sorted Processing Options
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI040 which produces the Production and Capacity Report of the PWS Inventory

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINT1	PWSI.302	OPTIONAL	Prints the Production and Capacity Data Report
		MSIS.309	YES	Prints the Standard Sort Sequence Report
		MSIS.311	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Processing Options using Sort06

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN	(PROC)	PWSI.105	OPTIONAL*	Contains Processing Date and other criteria
		(SORT)	PWSI.100	OPTIONAL*	Identifies fields by which outputs are sorted
			PWSI.206	OPTIONAL	PROC50 - Condensed/Production Data/Discretionary Report File/header record layouts

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT (PROC)	PWSI.105	YES	Contains the sorted Processing Options
	(SORT)	PWSI.100	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes PWSI050 which produces the State Discretionary Data Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	DETREC	PWSI.201	YES	Contains the Public Water Data Element Table
	PWSISELT	PWSI.200	YES	Contains the Public Water File (PWF)-Type File
	OPTIONS (PROC)	PWSI.105	YES	Contains the sorted Processing Options
	(SORT)	PWSI.100	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes PWSI050 which produces the State Discretionary Data Report	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINT1	MSIS.309	YES	Prints the Standard Sort Sequence Report
		MSIS.311	YES	
	PRINT2	PWSI.301	OPTIONAL	Prints State Discretionary Data Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN (PROC)	PWSI.204	OPTIONAL*	Contains the Processing Date and other criteria
	(SORT)	PWSI.100	OPTIONAL*	Identifies fields by which outputs are sorted
	(RESTART)	PWSI.105	OPTIONAL*	Contains Restart information
		PWSI.206	OPTIONAL	PROC60 - Condensed/Production Data/ Discretionary Report/File header record layouts

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Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT (PROC)	PWSI.204	YES	Contains sorted Processing Options
	(SORT)	PWSI.100	YES	
	(RESTART)	PWSI.105	YES	
		PWSI.206	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes PWSI060.

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	DETREC	MSIS.201	YES	Contains the Public Water Data Element Table
	PWSISELT	PWSI.200	YES	Contains the Public Water File (PWF) Type File
	OPTIONS (PROC)	PWSI.204	YES	
	(SORT)	PWSI.100	YES	Contains sorted Processing Options
	(RESTART)	PWSI.105	YES	
		PWSI.206		

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Operations Instructions

For Job PWSISELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI060

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRINT1	PWSI.303	OPTIONAL	Prints the Comprehensive Report
		MSIS.309	YES	Prints the Standard Sort Sequence Report
		MSIS.311	YES	
	PRINT2	PWSI.400	OPTIONAL	Prints the Public Water System Status and Entry Form Turnaround Documents

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISPLT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.PWSIPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSISELT MSIS.PROC30 MSIS.PROC40 MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PROC30 MSIS.PROC40 MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.PROC30 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC40 MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.PWSISELT MSIS.PWSIPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC40 MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.PROC40 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.PWSIPROC MSIS.PWSISELT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC50 MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept:
	MSIS.PROC50
	If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:
	A. Uncatalog and scratch any of the following data sets that are cataloged:
	MSIS.PWSIPROC
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 7.
	(2)
	A. Uncatalog and scratch any of the following data sets that were cataloged:
	MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC60
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.PWSIPROC MSIS.PWSISELT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC MSIS.PROC60 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: MSIS.PROC60 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSISELT

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.PWSIPROC MSIS.PWSISELT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSISELT MSIS.PWSIPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: PWSIUPD1

Function: Job stream to update the Public Water File (PWF), maintain the Public History File (PHF) and print either the Comprehensive Report or the Turnaround Document as required.

Step 1: This step sorts the input transactions into the proper sequence for processing.

Step 2: This step executes program PWSI010 which uplates the Public Water File.

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 4: This step sorts the PHF transactions into the proper sequence for processing.

Step 5: This step sorts the processing options into the proper sequence for processing.

Step 6: This step executes program PWSI070 which maintains the Public History File.

Step 7: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 8: This step sorts the processing options into the proper sequence for processing.

Step 9: This step executes program PWSI060 which can produce the Comprehensive Report or the Turnaround Document Public Water System Status and Entry Form.

Step 10: This step sorts the processing options into the proper sequence for processing.

Step 11: This step executes program PWSI060 which can produce the Comprehensive Report or the Turnaround Document Public Water System Status and Entry Form.

Step 12: This step sorts the processing options into the proper sequence for processing.

Step 13: This step executes program PWSI060 which can produce the Comprehensive Report or the

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Turnaround Document Public Water System Status and Entry Form.

Step 14: This step sorts the processing options into the proper sequence for processing.

Step 15: This step executes program PWST060 which can produce the Comprehensive Report or the Turnaround Document Public Water System Status and Entry Form.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD1

RUN FREQUENCY: Upon Request	JOB DUE OUT
JOB DESCRIPTION: Update the Public Water File (PWF)	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	PWSI.309	Update Statistics Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.310	Standard Warning Report	---	---	STD	---	---	---	---	Requestor
3	MSIS.313	Data Entry Report	1	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	---	---	---	---	---	5	---	---	---	---
6	PWSI.307	Public Water Update Report	---	---	STD	6	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD1

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Update the Public Water File (PWF)

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.300	Standard Update Statistics Report	1	---	STD	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
7	MSIS.313	Data Entry Report	---	---	STD	7	---	---	---	Requestor
8	---	---	---	---	---	8	---	---	---	---
9	PWSI.314	PWT Create Statistics Report	1	---	STD	9	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD1

RUN FREQUENCY: Upon Request	JOB DUE OUT	
JOB DESCRIPTION: Update the Public Water File (PWF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Input Transactions using Sort19	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	PWSI.213 THRU PWSI.229 PWSI.233	Yes*	Contains Public Water Transaction Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input Transactions using Sort19

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	PWSI.213 THRU PWSI.229 PWSI.233	Yes	Contains sorted Public Water Transaction Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI010 which updates the Public Water File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	CVTPW	MSIS.206	Yes	Contains Public Water Code Value Table
	CVTMS	MSIS.206	Yes	Contains MSIS Code Value Table
	LBTFILE	WAQC.256 WAQC.250	Yes	Contains Laboratory Table
	PWF	PWSI.200	Yes	Contains Public Water Records
	PWFTRAN	PWSI.213 THRU PWSI.229 PWSI.223	Yes	Contains sorted Public Water Transaction Records
	PROC (PROC)	PWSI.111	Yes	Contains Processing Date and other criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI010 which updates the Public Water File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	REPORT	PWSI.312 MSIS.309	Yes	Prints PWF Update Statistics Report
		MSIS.310	Yes	Prints Standard Warning Report
	PWFOUT	PWSI.200	Yes	Contains Public Water Records
	PHFIL	PWSI.202	Yes	Contains Public History Records
	SEFFILE	MSIS.208 MSIS.207	Yes	Contains Public Water Standard Error Records
	PWFPNEW	PWSI.204	Yes	Contains Public Water PROC Record
	PWFNEW	PWSI.200	Yes	Contains Public Water Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes PWSI010 which updates the Public Water File	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PWFPINC	PWSI.204	Yes	Contains Incomplete Public Water File Proc Record
	PWFINC	PWSI.200	Yes	Contains Incomplete Public Water Records
	PWFPSTU	PWSI.204	Yes	Contains Public Water Status File Proc Record
	PWFSTU	PWSI.200	Yes	Contains Public Water Status Records
	PWFPUNS	PWSI.204	Yes	Contains Unsuccessful Update Proc Record
	PWFUNS	PWSI.200	Yes	Contains Unsuccessfule Update Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains Public Water Data Element Table
	EMTFIL	MSIS.205	Yes	Contains Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains Public Water Standard Error Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Prints the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the PHP Transactions using Sort01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	PWSI.202	Yes*	Contains Public History File Transaction Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the PHF Transactions using Sort01

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	PWSI.202	Yes	Contains sorted Public History File Transaction Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Processing Options using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN (PROC)	PWSI.106	Yes*	Contains Processing Date and other criteria
	(SORT)	PWSI.100	Yes*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	PWSI.106 PWSI.100	Yes	Contains sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI070 which maintains the Public History File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PWDET	MSIS.201	Yes	Contains Public Water Data Element Table
	PHDET	MSIS.241	Yes	Contains Public History Data Element Table
	PHMASTER	PWSI.202	Yes	Contains Public History Records
	PHFTRANS	PWSI.202	Yes	Contains sorted Public History File Transaction Records
	PHFOPTN	PWSI.106 PWSI.100	Yes	Contains sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI070 which maintains the Public History File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PHMASTRO	PWSI.202	Yes	Contains Public History Records
	SEFFILE	MSIS.207 MSIS.208	Yes	Contains Public Water Standard Error Records
	PRINTER	PWSI.307	Yes	Prints the Public Water System Inventory Update Report
		MSIS.300	Yes	Prints the Standard Update Statistics Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	DETFIL	MSIS.201	Yes	Contains Public Water Data Element Table
	EMTFIL	MSIS.205	Yes	Contains Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains Public Water Standard Error Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Prints the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Scratches and uncatalogues the old Public Water Table (PWT)	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PWT	PWSI.200	Yes	Contains Public Water Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI130 which creates the Public Water Table

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	PWTFIL	PWSI.200	Yes	Contains Public Water Records
	PROCCARD (PROC)	PWSI.101	Yes	Contains Processing Date

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI130 which creates the Public Water Table

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	PWTFIL	PWSI.201 PWSI.234	Yes	Contains Public Water Records
	PRINTER	PWSI.314 MSIS.309	Yes	Prints Public Water Table Statistics Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSITRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWSITRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.PWSITRAN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRAN MSIS.PWSEF MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF C. Restart the job from step 2.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 2 continued	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRAN MSIS.PWSEF MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.PWSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and detected, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRAN MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 3 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.PHFTRAN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PHFTRANS B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRANS MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 4 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	**DESCRIPTION**
Step 5	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PHFOPTN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRANS MSIS.PHFOPTN MSIS.PWSINEW MSIS.PWSIPRC1 MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.PHFTRANS MSIS.PHFOPTN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSEF MSIS.PHF DDNAME=PHMASTRO B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PHFTRANS MSIS.PHFOPTN MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PWSEF MSIS.PHF DDNAME=PHMASTRO

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 6 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.PWSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 7 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 8 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC1 MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD1

RESTART PROCEDURE #	DESCRIPTION
Step 9 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1.

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PROC Name: PWSIUPD2

Function: Job stream to update the Public Water File (PWF) and build the new Public Water Table (PWT).

Step 1: This step executes sort to put the input transactions into the proper sequence for processing.

Step 2: This step executes the program PWSI010 which updates the Public Water File.

Step 3: This step executes the program MSIS010 which creates the Standard Error File (SEF).

Step 4: This step executes sort to put PHF transactions into the proper sequence for processing sort fields.

Step 5: This step executes sort to put the processing options into the proper sequence for processing.

Step 6: This step executes program PWSI070 which maintains the Public History File (PHF).

Step 7: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 8: This step executes program IEFBR14 which scratches and uncataloques the old Public Water Table (PWT).

Step 9: This step executes program PWSI130 which creates the Public Water Table (PWT).

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY: Upon Request		**JOB DUE OUT**
JOB DESCRIPTION: Print Comprehensive Report or Turnaround Document from the Public Water File (PWF)		

STEP	**REPORT(S) PRODUCED**		**EST.# OF PAGES**	**#OF PARTS AND/OR FORM#**	**CARRIAGE TAPE**	**RESTART PROCEDURE**	**DELOCATE**	**BURST**	**TRIM**	**SEND OUTPUT TO**
	EXHIBIT #	**NAME**								
1	---	---	---	---	---	1	---	---	---	---
2	PWSI.303	Comprehensive Report	1 per new PWS or none	---	STD	2	---	---	---	Requestor
	PWSI.400	Turnaround		8 lines per inch #MS01-part	---	---	---	---	---	Requestor
	PWSI.401	Document								
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	PWSI.303	Comprehensive Report	1 per Incomplete PWS or none	---	STD	4	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY: Upon Request		**JOB DUE OUT**
JOB DESCRIPTION: Print Comprehensive Report or Turnaround Document from the Public Water File (PWF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	PWSI.400 PWSI.401	Turnaround Document		8 lines per inch #MS01 - 1 part	---	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
5	---	---	---	---	---	5	---	---	---	---
6	PWSI.303	Comprehensive Report	1 per Un-successful Update PWS or none	---	STD	6	---	---	---	Requestor
	PWSI.400 PWSI.401	Turnaround Document		8 lines per inch #MS01 - 1 part	---	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Print Comprehensive Report or Turnaround Document from the Public Water File (PWF)	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	PWSI.303	Comprehensive Report	1 per Status Requests PWS or none	---		8	---	---	---	Requestor
	PWSI.400 PWSI.401	Turnaround Document		8 lines per inch #MS01 - 1 part	---	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY: After Procedure PWSIUPD1 JOB DUE OUT

JOB DESCRIPTION: Produce Reports from Public Water File (PWF) Update

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	PWSI.303	Comprehensive Report	1 per new PWS or none	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	---	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
	PWSI.400 PWSI.401	Public Water File (PWF) Record Creation and Maintenance Form (Turnaround Document)	1 per new PWS or none	8 lines per Inch Form # MS01 1 part	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY:	After Procedure PWSIUPD1	JOB DUE OUT
JOB DESCRIPTION:	Produce Reports from Public Water File (PWF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
3	---	---	---	---	---	3	---	---	---	---
4	PWSI.303	Comprehensive Report	1 per incomplete PWS or none	---	STD	4	---	---	---	Requestor
	MSIS.309	Standard Error Report	---	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
	PWSI.400 PWSI.401	Public Water File (PWF) Record Creation and Maintenance Form (Turnaround Document)	1 per incomplete PWS or none	8 lines per Inch Form # MS01 1 part	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY:	After Procedure PWSIUPD1	JOB DUE OUT
JOB DESCRIPTION:	Produce Reports from Public Water File (PWF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
5	---	---	---	---	---	5	---	---	---	---
6	PWSI.303	Comprehensive Report	1 per request status PWS or none	---	STD	6	---	---	---	Requestor
	MSIS.309	Standard Error Report	---	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
	PWSI.400 PWSI.401	Public Water File (PWF) Record Creation and Maintenance Form (Turnaround Document)	1 per status request PWS or none	8 lines per Inch Form # MS01 1 part	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB PWSIUPD2

RUN FREQUENCY:	After Procedure PWSIUPD1	JOB DUE OUT
JOB DESCRIPTION:	Produce Reports from Public Water File (PWF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
7	---	---	---	---	---	7	---	---	---	---
8	PWSI.303	Comprehensive Report	1 per unsuccessfully updated PWS or none	---	STD	8	---	---	---	Requestor
	MSIS.309	Standard Error Report	---	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
	PWSI.400 PWSI.401	Public Water File (PWF) Record Creation and Maintenance Form (Turnaround Document)	1 per unsuccessfully updated PWS or none	8 lines per Inch Form # MS01 1 part	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Processing Options using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	PWSI.204	YES*	Contains processing date and other criteria New Public Water File Proc Record
	(SORT)	PWSI.100	YES*	Identified fields by which output is sorted
	(RESTART)	PWSI.105	YES*	Contains three start options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	PWSI.100 PWSI.105 PWSI.204	YES	Contains the sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes PWSI060	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	DETREC	MSIS.201	YES	Contains Public Water Data Element Table
	PWFTYPE	PWSI.400	YES	Contains Public Water File Type Records
	OPTIONS	PWSI.204	YES	Contains sorted Processing Options
		PWSI.100		
		PWSI.105		

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes PWSI060	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINT1	PWSI.303 PWSI.309 PWSI.311	YES	Prints Comprehensive Report and Standard Sort Sequence Report
	PRINT2	PWSI.400 PWSI.401	YES	Prints Public Water System Status and Entry Form

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:

Sorts the Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN (PROC)	PWSI.204	Yes*	Contains processing date and other criteria, Incomplete Public Water File Proc Record
	(SORT)	PWSI.100	Yes*	Identifies fields by which output is sorted
	(RESTART)	PWSI.105	Yes*	Contains three start options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	PWSI.100 PWSI.105 PWSI.204	Yes	Contains the sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI060

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	DETREC	MSIS.201	Yes	Contains Public Water Data Element Table
	PWFTYPE	PWSI.200	Yes	Contains Public Water File Type Records
	OPTIONS	PWSI.240 PWSI.100 PWSI.105	Yes	Contains sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes PWSI060	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINT1	PWSI.303 PWSI.309 PWSI.311	Yes	Prints Comprehensive Report and Standard Sort Sequence Report
	PRINT2	PWSI.400 PWSI.401	Yes	Prints Public Water System Status and Entry Form

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Processing Options using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN (PROC)	PWSI.204	Yes*	Contains processing date and other criteria, Public Water Status File Proc Record
	(SORT)	PWSI.100	Yes*	Identifies fields by which output is sorted
	(RESTART)	PWSI.105	Yes*	Contains three restart options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	PWSI.100 PWSI.105 PWSI.204	Yes	Contains the sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Executes PWSI060

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETREC	MSIS.201	Yes	Contains Public Water Data Element Table
	PWFTYPE	PWSI.200	Yes	Contains Public Water File Type Records
	OPTIONS	PWSI.204 PWSI.100 PWSI.105	Yes	Contains sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI060

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINT1	PWSI.303 PWSI.309 PWSI.311	Yes	Prints Comprehensive Report and Standard Sort Sequence Report
	PRINT2	PWSI.400 PWSI.401	Yes	Prints Public Water System Status and Entry Form

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:

JOB DUE OUT

JOB DESCRIPTION:
Sorts the Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN (PROC)	PWSI.204	Yes*	Contains processing date and other criteria, Unsuccessfull Update File Proc Record
	(SORT)	PWSI.100	Yes*	Identifies fields by which output is sorted
	(RESTART)	PWSI.105	Yes*	Contains three restart options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	PWSI.100 PWSI.105 PWSI.204	YES	Contains the sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI060.

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	DETREC	MSIS.201	YES	Contains Public Water Data Element Table
	PWFTYPE	PWSI.200	YES	Contains Public Water File Type Records
	OPTIONS	PWSI.204 PWSI.100 PWSI.105	YES	Contains sorted Processing Options

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job PWSIUPD2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes PWSI060	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINT1	PWSI.303 PWSI.309 PWSI.311	YES	Prints Comprehensive Report and Standard Sort Sequence Report
	PRINT2	PWSI.400 PWSI.401	YES	Prints Public Water System Status and Entry Form

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC1 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPRC5 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSINEW MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSIUNSU MSIS.PWSISTAT MSIS.PHF DDNAME=PHMASTRO MSIS.PWT MSIS.PWSIPRC4 MSIS.PWSIPRC5

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 1 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC5 MSIS.PWSINEW If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSINEW MSIS.PWSIPRC5 MSIS.PWSIPRC2 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 2 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC2 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPRC6 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC6 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSIUNSU MSIS.PWSISTAT MSIS.PHF DDNAME=PHMASTRO MSIS.PWT MSIS.PWSIPRC4

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	**DESCRIPTION**
Step 3 - continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC6 MSIS.PWSINCM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC6 MSIS.PWSINCM MSIS.PWSIPRC3 MSIS.PWSISTAT MSIS.PWSIPRC4 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 4 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC3 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPRC7 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC7 MSIS.PWSIUNSU MSIS.PWSISTAT MSIS.PHF DDNAME=PHMASTRO MSIS.PWT MSIS.PWSIPRC4 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION

Step 6

(1) Check the following data sets to see if they were kept:

MSIS.PWSIPRC7
MSIS.PWSISTAT

If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:

A. Uncatalog and scratch any of the following data sets that are cataloged.

None

B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 6.

(2) A. Uncatalog and scratch any of the following data sets that were cataloged:

MSIS.PWF DDNAME=PWFOUT
MSIS.PWSIPRC7
MSIS.PWSISTAT
MSIS.PWSIPRC4
MSIS.PWSIUNSU
MSIS.PHF DDNAME=PHMASTRO
MSIS.PWT

B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers:

MSIS.PWF DDNAME=PWF
MSIS.PHF DDNAME=PHMASTRO

C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC4 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PWSIPRC8 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC8 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT B. If any of the following data sets were cataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB PWSIUPD2

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.PWSIPRC8 MSIS.PWSIUNSU If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PWF DDNAME=PWFOUT MSIS.PWSIPRC8 MSIS.PWSIUNSU MSIS.PHF DDNAME=PHMASTRO MSIS.PWT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PWF DDNAME=PWF MSIS.PHF DDNAME=PHMASTRO C. Restart the job from step 1 of PWSIUPD1.

PWSI010 - Public Water File Data Entry and Update

a. Function

The primary objective of this program is to update the Public Water File (PWF). Assigning a new Public Water System (PWS), updating an existing PWS, and deletion of a PWS are all functions of the update. Four intermediate files can be produced as a result of the update. A Public History File (PHF) transaction is created for each valid update transaction. Additionally, the Standard Update Statistics Report is produced.

b. Inputs:

Code Value Table (CVT)

Public Water File (PWF)

Laboratory Table (LBT)

PWF Transactions (PWSI.114, 400 and 401)

c. Processing Options:

PROC (PWSI.111)

d. Outputs:

Pubic Water File (PWF)

Public History File (PHF) Transactions

Standard Error File (SEF)

New Public Water System (PWS) File PROC

New PWS File

Incomplete PWS File PROC

Incomplete PWS File

PWS Status File PROC

PWS Status File

Unsuccessful Update File PROC

Unsuccessful Update File

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PWF Update Statistics Report (PWSI.312 and MSIS.309)

Standard Warning Report (MSIS.310)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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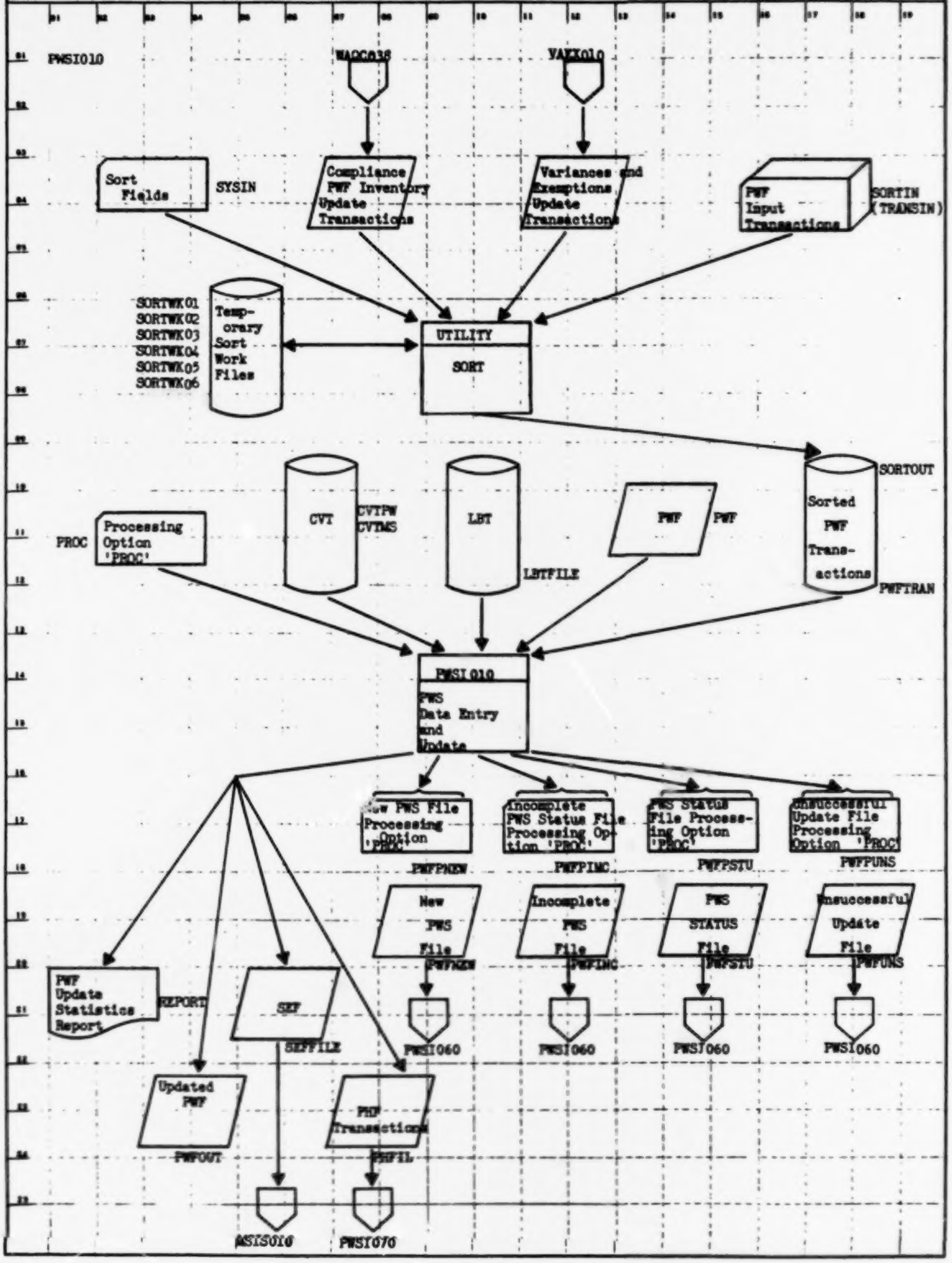
PWSI010
WAQC038
VAXX010
Sort Fields
SYSIN
Compliance PWF Inventory Update Transactions
Variances and Exemptions Update Transactions
PWF Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted PWF Transactions
PWFTRAN
PROC
Processing Option 'PROC'
CVT
CVTPW
CVTMS
LBT
LBTFILE
PWF
PWF
PWSI 010
PWS Data Entry and Update
New PWS File Processing Option 'PROC'
PWFPNEW
Incomplete PWS Status File Processing Option 'PROC'
PWFPINC
PWS Status File Processing Option 'PROC'
PWFPSTU
Unsuccessful Update File Processing Option 'PROC'
PWFPUNS
New PWS File
PWFNEW
Incomplete PWS File
PWFINC
PWS STATUS File
PWFSTU
Unsuccessful Update File
PWFUNS
PWSI060
PWSI060
PWSI060
PWSI060
PWF Update Statistics Report
REPORT
SEF
SEFFILE
Updated PWF
PWFOUT
PHF Transactions
PHFIL
ASIS010
PWSI070

f. PWSI010 -Error Message and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records.

MESSAGE: WARNING - NEW PWS REPORT OPTION HAS DEFAULTED TO 1
REMEDIAL ACTION: None. This means that no new PWS Report will be produced.

MESSAGE: WARNING - INCOMPLETE RPT OPTION HAS DEFAULTED TO 3
REMEDIAL ACTION: None. This means that a file to produce the Comprehensive Report will be created.

MESSAGE: WARNING - STATUS REPORT OPTION HAS DEFAULTED TO 3
REMEDIAL ACTION: None. This means that a file to produce the Comprehensive Report will be created.

MESSAGE: WARNING - UNSUCCESSFUL RPT OPT HAS DEFAULTED TO 3
REMEDIAL ACTION: None. This means that a file to produce the Comprehensive Report will be created.

PWSI020 - Public Water File (PWF) Selection

a. Function

The function of this program is to search the Public Water File (PWF) and select records to produce any or all four (4) of the following reports:

1. Condensed Report (PWSI030)

2. Production and Capacity Data Report (PWSI040)

3. State Discretionary Data Report (PWSI050)

4. Comprehensive Report or Turnaround Document (PWSI060)

b. Inputs:

Data Element Table (DET)

Public Water File (PWF)

c. Processing Options:

PROC (PWSI.113)

SEL1 (PWSI.107)

SEL2 (PWSI.108)

d. Outputs:

Selected PWF records

Standard Selection Statistics Report (MSIS.312)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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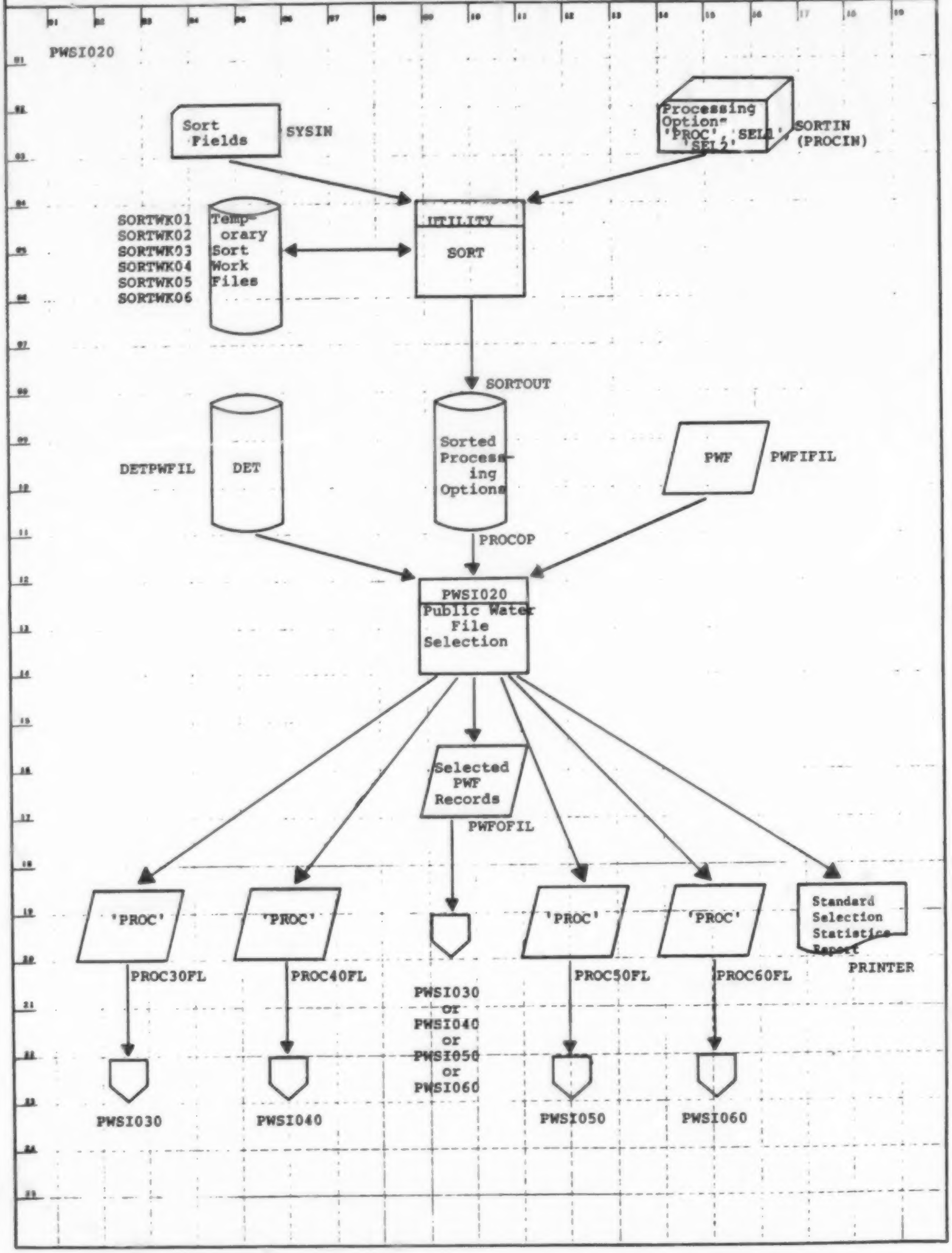

PWSI020
Sort Fields
SYSIN
Processing Option" 'PROC', 'SEL1', 'SEL2'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
DETPWFIL
DET
Sorted Processing Options
PWF
PWFIFIL
PROCOP
PWSI020
Public Water File Selection
Selected PWF Records
PWFOFIL
'PROC'
'PROC'
'PROC'
'PROC'
Standard Selection Statistics Report
PRINTER
PROC30FL
PROC40FL
PROC50FL
PROC60FL
PWSI030 or PWSI040 or PWSI050 or PWSI060
PWSI030
PWSI040
PWSI050
PWSI060

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f. PWSI020 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records, SORT Records, and SEL1 and SEL2 Records.

MESSAGE: ERROR - NO REPORT-VALUE SUPPLIED IN PROC CARD
REMEDIAL ACTION: return all options to data entry

MESSAGE: ERROR - PW DATA ELEMENT TABLE TOO LARGE OR MISSING
REMEDIAL ACTION: check to see if DET was available, if not, rerun job. If DET was entered, it was too large and job will require programming change before it can be run successfully.

MESSAGE: ERROR - THE MONTH OR YEAR IN THE VALUE IS INVALID
REMEDIAL ACTION: check for valid date in comparative value, if not, return all options to data entry.

MESSAGE: ERROR - THE MONTH OR DAY IN THE VALUE IS INVALID
REMEDIAL ACTION: check for valid date in comparative value, if not, return all options to data entry.

MESSAGE: ERROR - DECIMAL VALUE TOO LONG OR NOT NUMERIC
REMEDIAL ACTION: check for keypunch error, if not, return all options to data entry.

MESSAGE: ERROR - VALUE FIELD IN THE SEL1 NOT NUMERIC
REMEDIAL ACTION: check for keypunch error, if not, return all options to data entry.

PWSI030 - Condensed Report

a. Function

The principal function of this program is to produce the Condensed Report for the Public Water File (PWF). This report is optional and will be produced upon request.

b. Inputs:

Data Element Table (DET)

Selected Public Water File (PWF) records

c. Processing Options:

SORT (PWSI.100)

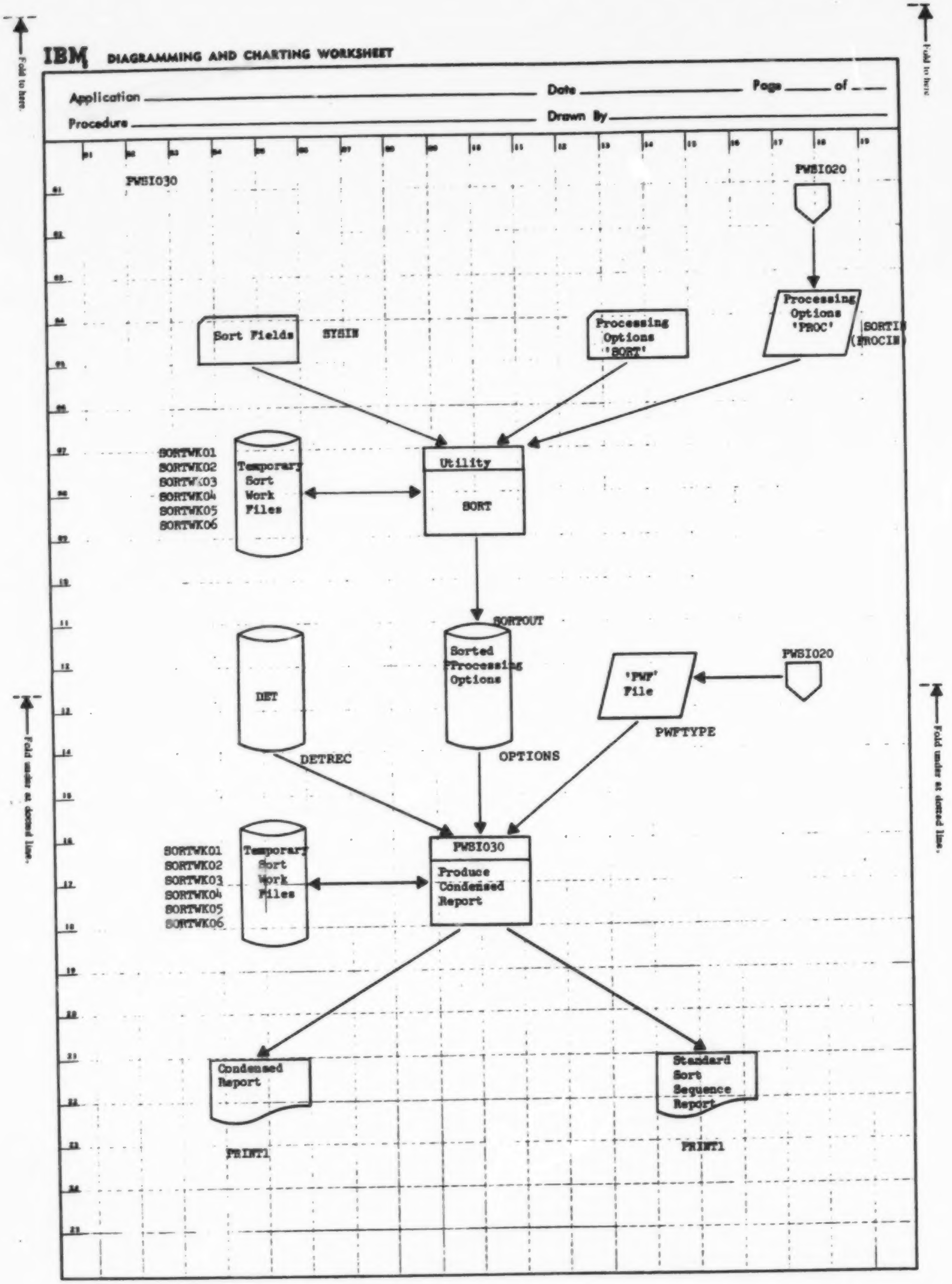
d. Outputs:

Public Water System Inventory Condensed Report (PWSI.300)

Standard Error Report (MSIS.309)

Standard Sort Sequence Report (MSIS.311)

e. I/O Chart


IBM DIAGRAMMING AND CHARTING WORKSHEET
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PWSI030
PWSI020
Sort Fields
SYSIN
Processing Options 'SORT'
Processing Options 'PROC'
SORTIN
(PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Utility
SORT
SORTOUT
Sorted Processing Options
DET
DETREC
OPTIONS
'PWF' File
PWFTYPE
PWSI020
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
PWSI030
Produce Condensed Report
Condensed Report
PRINT1
Standard Sort Sequence Report
PRINT1

f. PWSI030 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - EXCESSIVE ENTRIES ON DET TABLE
REMEDIAL ACTION: notify programming that the PWS DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORT CARD CONTAINS NO OPTIONS
REMEDIAL ACTION: check for keypunch errors. If none, return input form to data entry to complete form and rerun job.

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PWSI040 - Production and Capacity Data Report

a. Function

The principal function of this program is to produce the Production and Capacity Data Report for the Public Water File (PWF). This report is optional and will be produced upon request.

b. Inputs:

Data Element Table (DET)

Selected Public Water File (PWF) records

c. Processing Options:

SORT (PWSI.100)

d. Outputs:

Production and Capacity Data Report (PWSI.302)

Standard Error Report (MSIS.309)

Standard Sort Sequence Report (MSIS.311)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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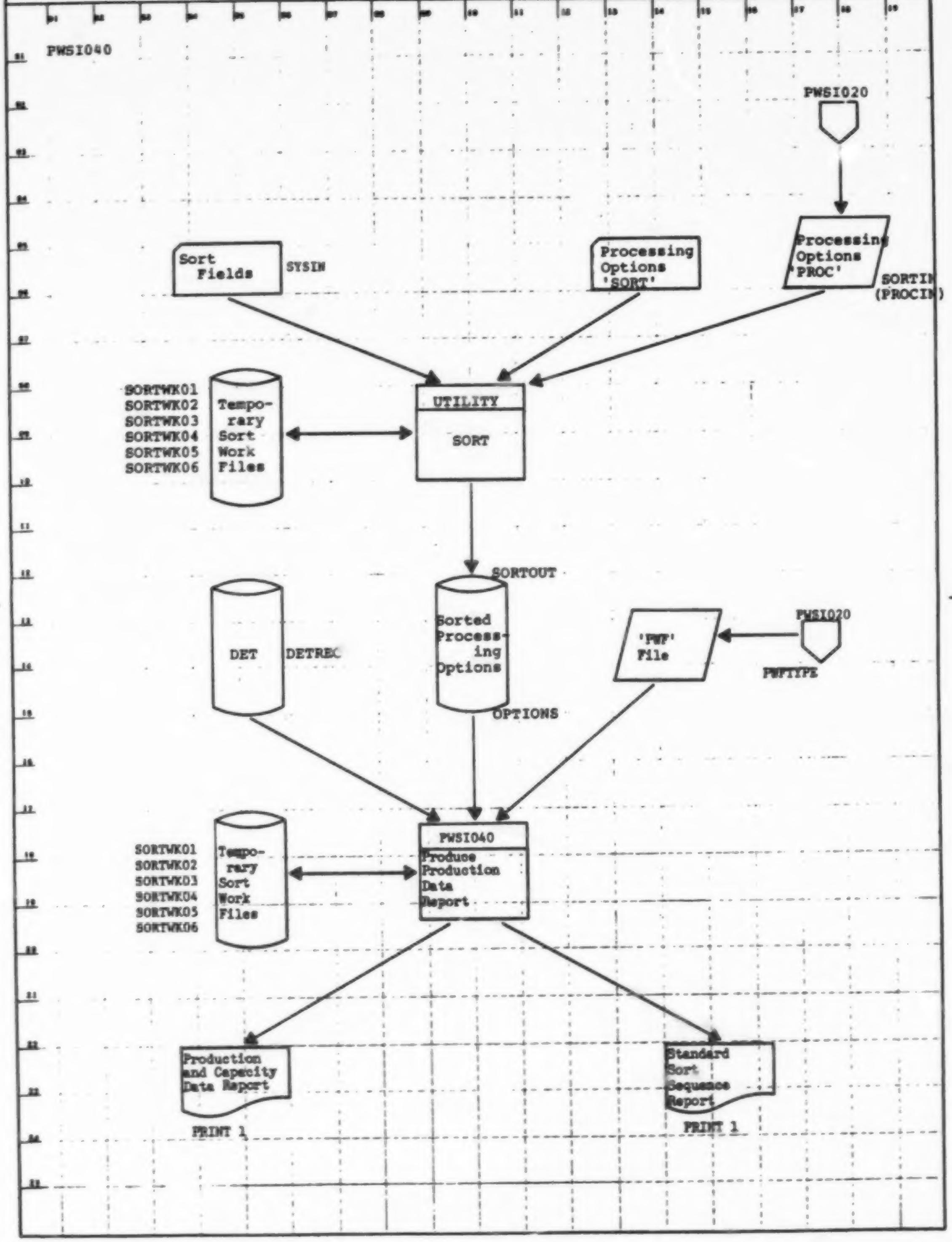
PWSI040
PWSI020
Sort Fields
SYSIN
Processing Options 'SORT'
Processing Options 'PROC'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
DET
DETREC
Sorted Processing Options
OPTIONS
'PWF' File
PWSI020
PWFTYPE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
PWSI040
Produce Production Data Report
Production and Capacity Data Report
PRINT 1
Standard Sort Sequence Report
PRINT 1

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f. PWSI040 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - EXCESSIVE ENTRIES ON DET TABLE

REMEDIAL ACTION: notify programming that the PWS DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORT CARD CONTAINS NO OPTIONS

REMEDIAL ACTION: check for keypunch errors. If none, return input form to data entry to complete form and rerun job.

PWSI050 - State Discretionary Data Report

a. Function

The principle function of this program is to produce the State Discretionary Data Report for the Public Water File (PWF). This report is optional and will be produced upon request.

b. Inputs:

Data Element Table (DET)

Selected Public Water File Records

c. Processing Options:

SORT (PWSI.100)

d. Outputs:

State Discretionary Data Report (PWSI.301)

Standard Error Report (MSIS.309)

Standard Sort Sequence Report (MSIS.311)

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e. I/O Chart

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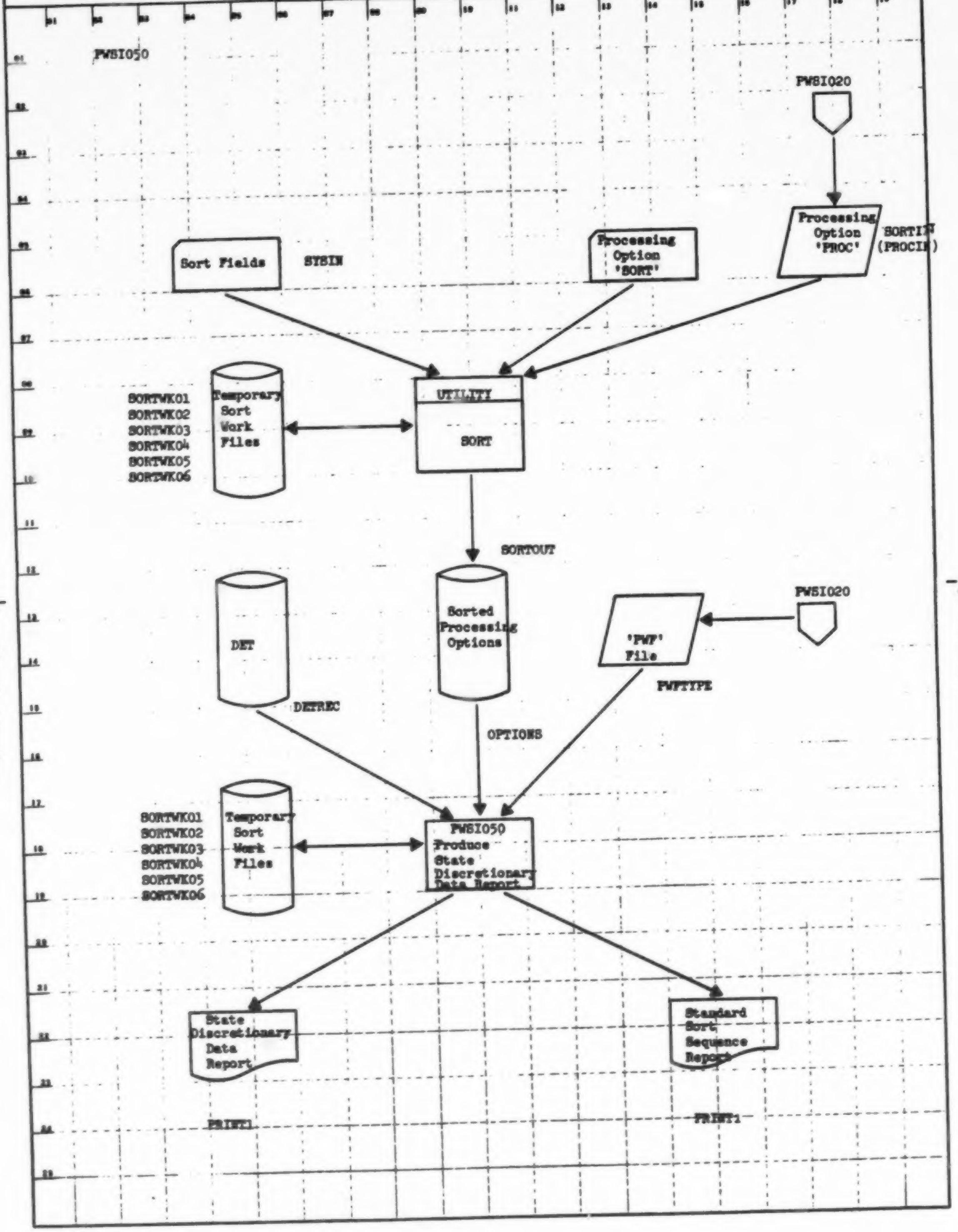
PWSI050
PWSI020
Processing Option 'PROC'
SORTIN (PROCIN)
Sort Fields
SYSIN
Processing Option 'SORT'
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
DET
Sorted Processing Options
'PWF' File
PWSI020
DETREC
OPTIONS
PWFTYPE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
PWSI050 Produce State Discretionary Data Report
State Discretionary Data Report
Standard Sort Sequence Report
PRINT1
PRINT1

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f. PWSI050 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - EXCESSIVE ENTRIES ON DET TABLE
REMEDIAL ACTION: notify programming that the PWS DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORT CARD CONTAINS NO OPTIONS
REMEDIAL ACTION: check for keypunch errors. If none, return input form to data entry to complete form and rerun job.

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PWSI060 - Comprehensive Report or Turnaround Document

a. Function

The function of this program is to produce the Public Water System (PWS) Status and Entry Form (turnaround document) or the Comprehensive Report (computer stock listing). The type of report can be selected by a Processing Options record. The default option, if the Processing Option is blank or invalid, is to produce the Comprehensive Report.

When creating the turnaround document, there is a Processing Option called "RESTART" which will give the operator the capability of starting the print job at a place other than the beginning of the file by specifying on which page the job should begin printing again.

b. Inputs:

Data Element Table (DET)

One of the following:

Public Water File (PWF)

Selected PWF records

Status Request records from the PWF

c. Processing Options:

SORT (PWSI.100)

RESTART (PWSI.105)

d. Outputs:

Public Water System Inventory Comprehensive Report (PWSI.303)

Standard Sort Sequence Report (MSIS.311)

Public Water System Status and Entry Form (PWSI.400 and 401)

Standard Error Report (MSIS.309)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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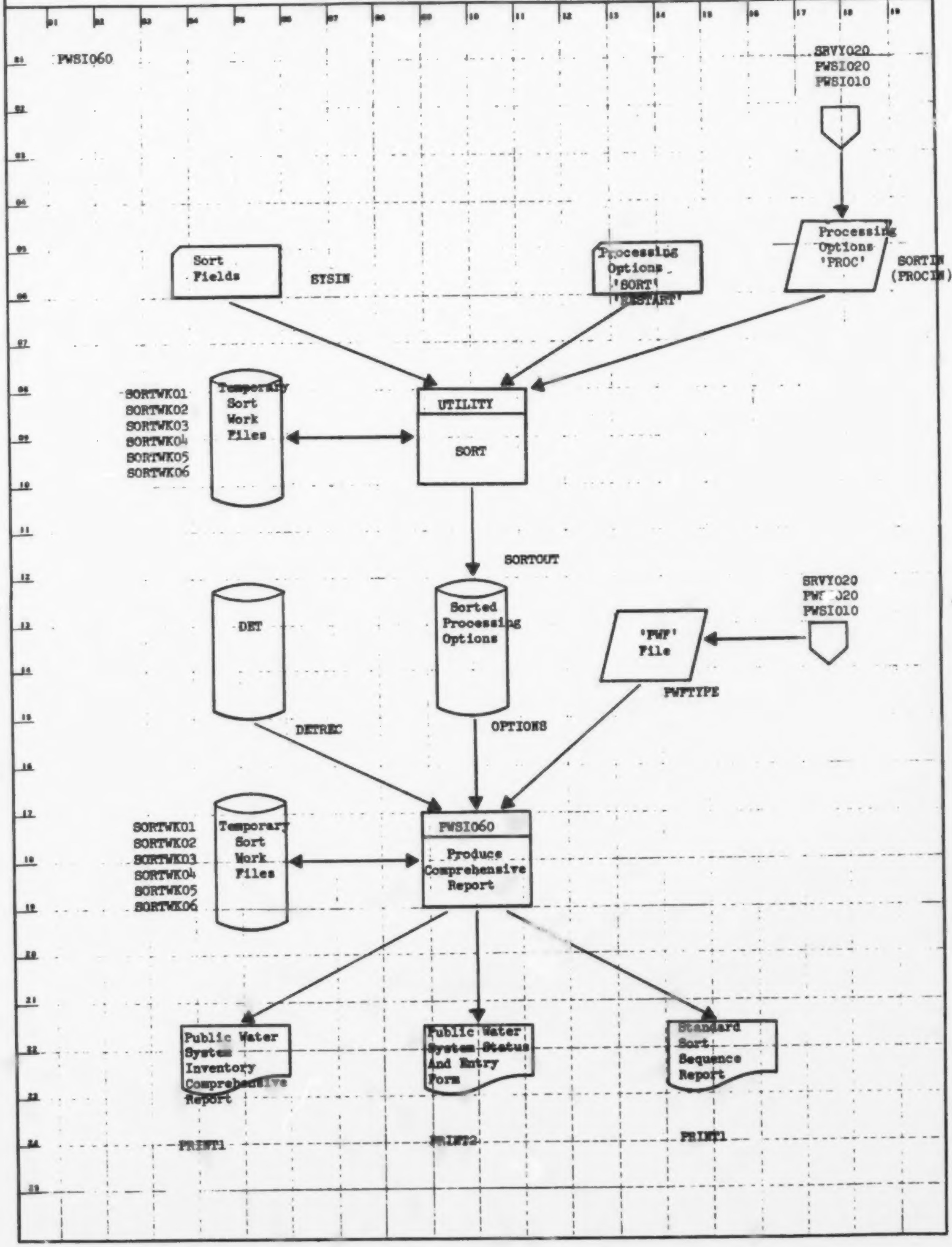
PWSI060
SRVY020
PWSI020
PWSI010
Sort Fields
SYSIN
Processing Options 'SORT' 'RESTART'
Processing Options 'PROC'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
DET
Sorted Processing Options
SRVY020
PWSI020
PWSI010
'PWF' File
PWFTYPE
DETREC
OPTIONS
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
PWSI060
Produce Comprehensive Report
Public Water System Inventory Comprehensive Report
Public Water System Status And Entry Form
Standard Sort Sequence Report
PRINT1
PRINT2
PRINT1

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f. PWSI06C - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - NO INPUT FILE HAS BEEN SPECIFIED
REMEDIAL ACTION: return all options to data entry.

MESSAGE: ERROR - RESTART TYPE NOT VALID IN OPTIONS RECORD
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - RESTART NUMBER IS INVALID
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - TWO RESTART RECORDS SUPPLIED
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - EXCESSIVE ENTRIES ON DET TABLE
REMEDIAL ACTION: notify programming that DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORT CARD CONTAINS NO OPTIONS
REMEDIAL ACTION: return all options to data entry.

PWSI070 Public History File (PHF) Maintenance

a. Function

This program maintains a history file of all specified changes and updates to the Public Water File (PWF). The history file is named the Public History File (PHF). If requested, the Public Water System Inventory Update Report is produced for the current history updates, or all the history updates since system implementation.

b. Inputs:

Public History File (PHF)

Public History File (PHF) Transactions

Public History Data Element Table (DET)

Public Water Data Element Table (DET)

c. Processing Options:

PROC (PWSI.106)

SORT (PWSI.100)

d. Outputs:

Updated Public History File (PHF)

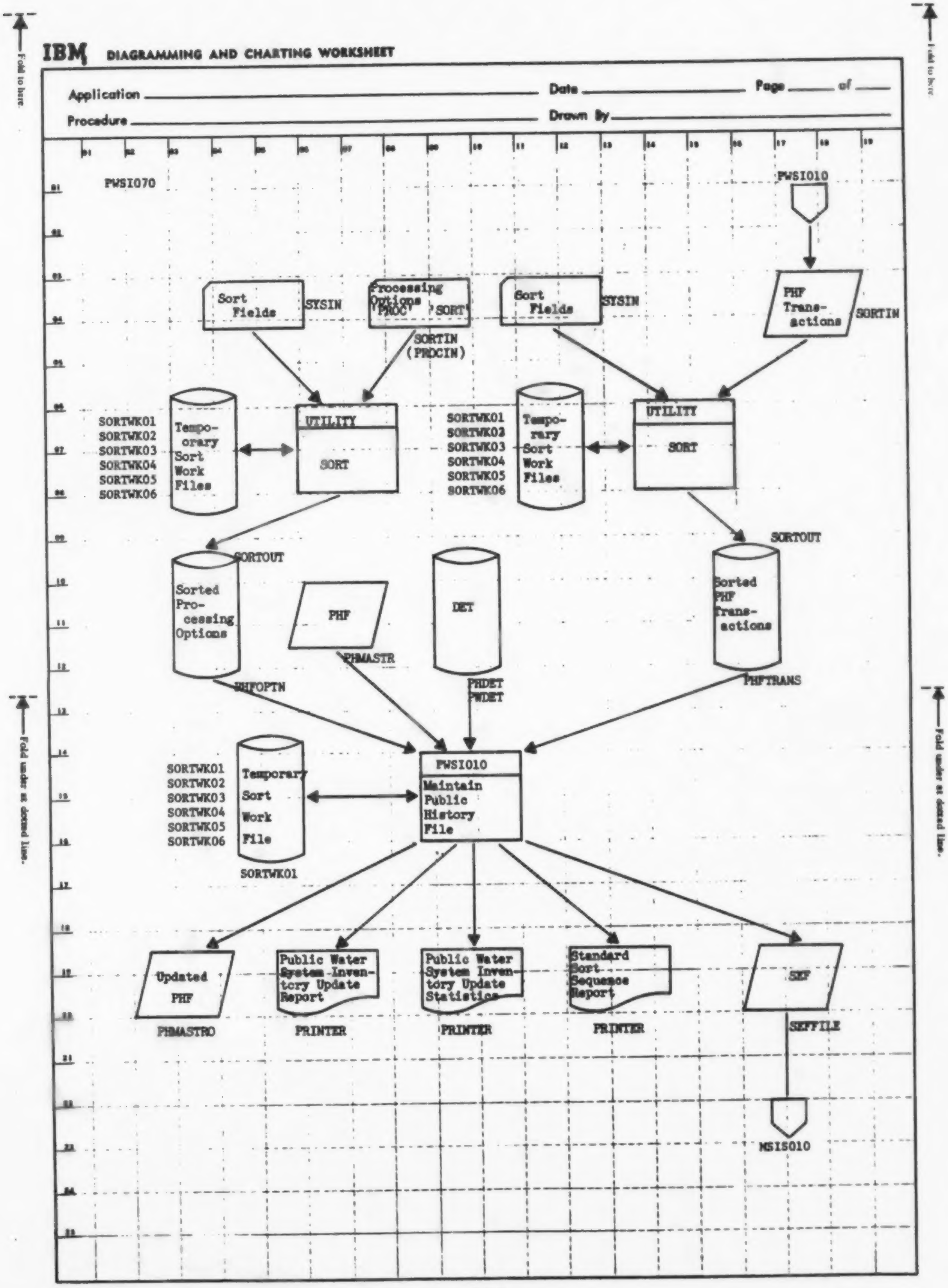
Public Water System Inventory Update Report (PWSI.307)

Standard Update Statistics (MSIS.300)

Standard Sort Sequence Report (MSIS.311)

Standard Error Report (MSIS.309)

e. I/O Chart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PWSI070
PWSI010
Sort Fields
SYSIN
Processing Options
PROC
SORT
SORTIN (PROCIN)
Sort Fields
SYSIN
PHF Transactions
SORTIN
UTILITY
SORT
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
SORTOUT
Sorted Processing Options
PHF
DET
SORTOUT
Sorted PHF Transactions
PHFOPTN
PHMASTR
PRDET
PWDET
PHFTRANS
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work File
SORTWK01
PWSI010
Maintain Public History File
Updated PHF
PHMASTRO
Public Water System Inventory Update Report
PRINTER
Public Water System Inventory Update Statistics
PRINTER
Standard Sort Sequence Report
PRINTER
SEF
SEFFILE
MSIS010

f. PWSI070 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - OPTIONS TYPE NOT PROC OR SORT RECORD
REMEDIAL ACTION: check for keypunch error, if not, return to data entry.

MESSAGE: ERROR - REPORT OPTION HAS INVALID CODE
REMEDIAL ACTION: check for keypunch error, if not, return to data entry.

MESSAGE: ERROR - PH DATA ELEMENT TABLE WAS NOT PROVIDED
REMEDIAL ACTION: mount Public History DET for use by this program.

MESSAGE: ERROR - PW DATA ELEMENT TABLE WAS NOT PROVIDED
REMEDIAL ACTION: mount PWF DET for use by this program.

MESSAGE: ERROR - PH DATA ELEMENT TABLE EXCEEDS LIMIT
REMEDIAL ACTION: notify programming that the PHF DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - PW DATA ELEMENT TABLE EXCEEDS LIMIT
REMEDIAL ACTION: notify programming that the PWF DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORTING INFORMATION IS NOT PROVIDED
REMEDIAL ACTION: return all options to data entry.

PWSI080 - Public History File (PHF) Selection

a. Function

This program selects records from the Public History File (PHF) based on the selection criteria entered on the Selection Form(s). The selected PHF records are sorted, and the Public History File Selection Report is produced along with the History Selection Statistics Report.

b. Inputs:

Data Element Table (DET)

Public History File (PHF)

c. Processing Options:

PROC (PWSI.101)

SEL1 (PWSI.107)

SEL2 (PWSI.108)

SORT (PWSI.100)

d. Outputs:

Standard History Selection Statistics Report (MSIS.306)

Public History File Selection Report (PWSI.311)

Standard Error Report (MSIS.309)

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e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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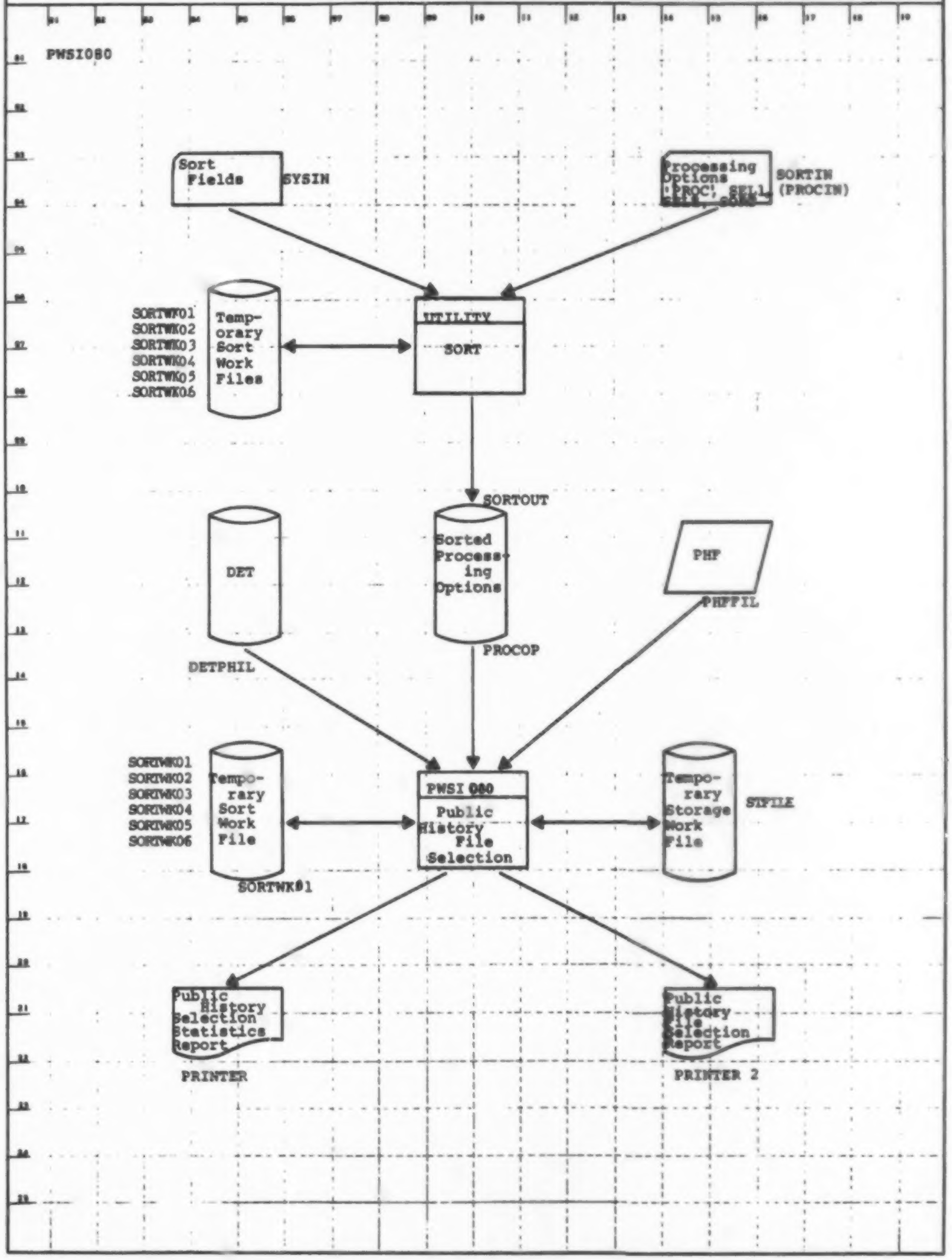
PWSI080
Sort Fields
SYSIN
Processing Options 'PROC', SEL1, SEL2, SORT
SORTIN (PROCIN)
SORTWF01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
DET
DETPHIL
Sorted Processing Options
PROCOP
PHF
PHFFIL
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work File
SORTWK01
PWSI 080
Public History File Selection
Temporary Storage Work File
STFILE
Public History Selection Statistics Report
PRINTER
Public History File Selection Report
PRINTER 2

f. PWST080 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records, SORT Records, and SEL1 and SEL2 Records.

MESSAGE: ERROR - NO PH DATA ELEMENT TABLE WAS PROVIDED
REMEDIAL ACTION: mount PWF DET for use by this program.

PWSI090 - Public History File (PHF) Purge

a. Function

This program purges records from the Public History File (PHF) that have the current update date less than that of the Processing Options purge date.

b. Inputs:

Public History File (PHF)

c. Processing Options:

PROC (PWSI.103)

d. Outputs:

Public History File (PHF)

Public History File Purge Records

Public History File Purge Report (PWSI.306)

Public History File Purge Statistics (PWSI.312)

e. I/O Chart

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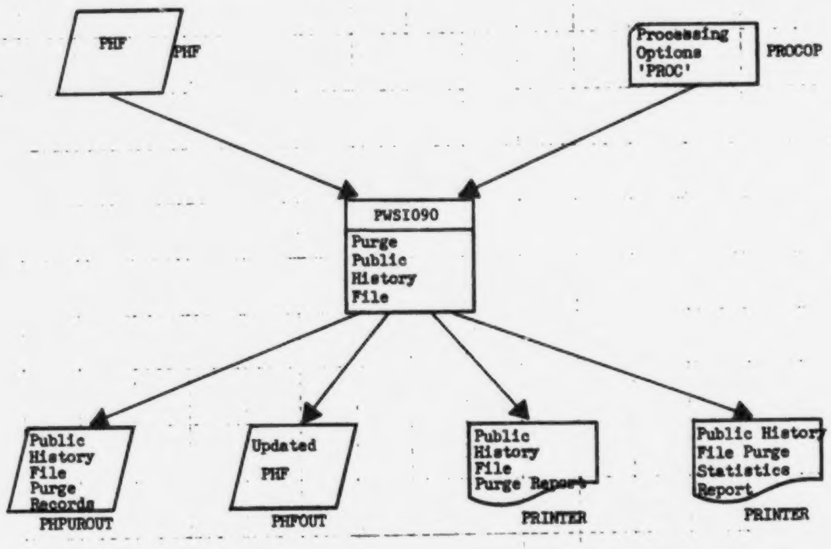
PWSI090


PHF
PHF
Processing Options 'PROC'
PROCOP
PWSI090
Purge Public History File
Public History File Purge Records
PHPUROUT
Updated PHF
PHFOUT
Public History File Purge Report
PRINTER
Public History File Purge Statistics Report
PRINTER

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f. PWSI090 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records.

MESSAGE: ERROR - RECORD TYPE NOT PROC RECORD
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - PROC RECORD CONTAINS AN INVALID PURGE DATE
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - PROC RECORD CONTAINS AN INVALID REPORT OPT
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

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PWSI120 - Convert National Inventory

a. Function

This program is designed to convert the National Public Water System Inventory File to MSIS Public Water File (PWF) data entry transactions and to produce a report containing the converted records.

b. Inputs:

National Public Water System Inventory File

Code Value Table (CVT)

c. Processing Options:

PROC (PWSI.112)

d. Outputs:

Public Water File Transactions

Conversion Report (PWSI.305)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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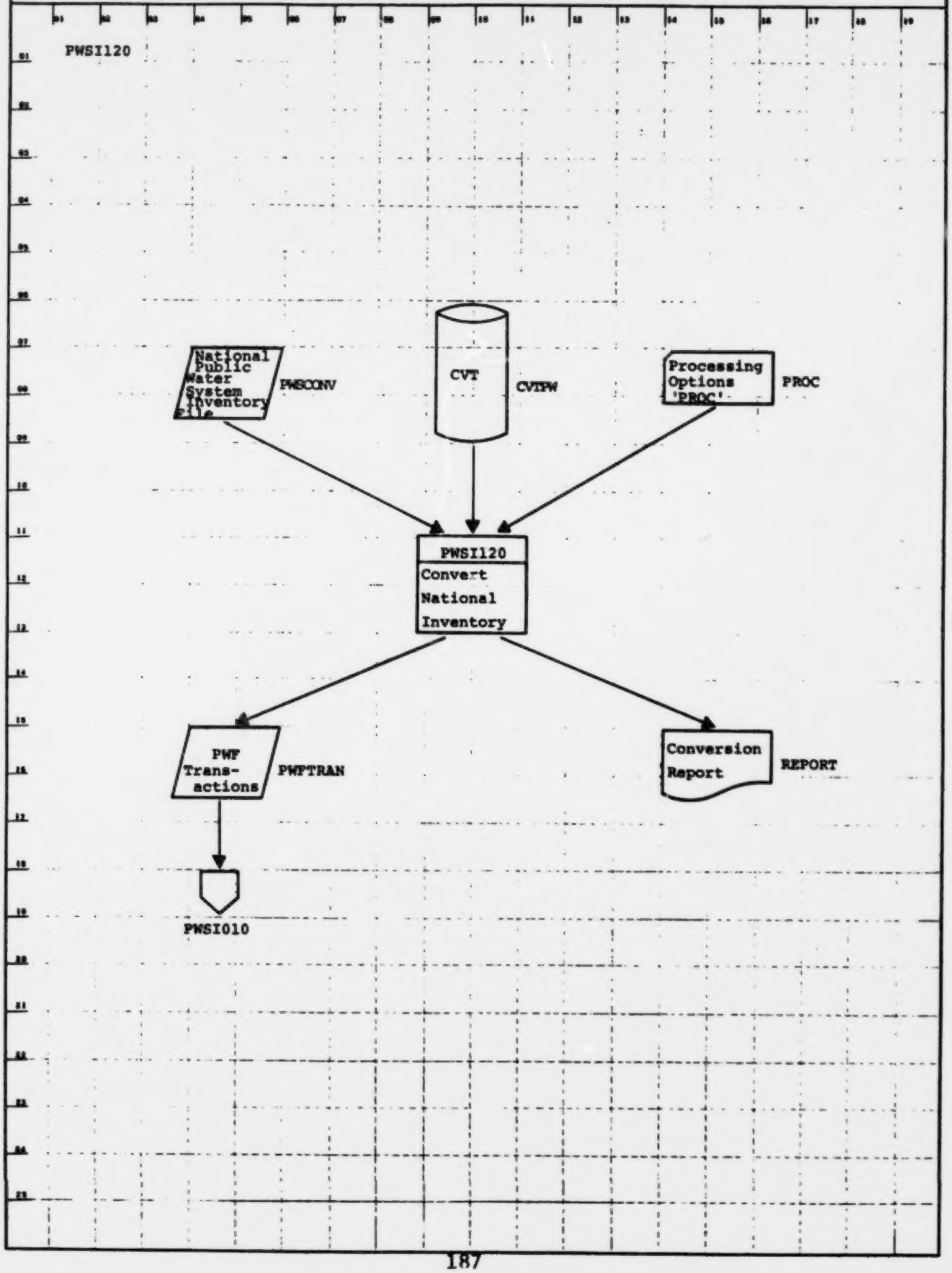
PWSI120
National Public Water System Inventory File
PWSCONV
CVT
CVTPW
Processing Options 'PROC'
PROC
PWSI120
Convert National Inventory
PWF Trans-actions
PWPTRAN
Conversion Report
REPORT
PWSI010

f. PWSI120 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records.

MESSAGE: REQUESTED STATE NOT ON FILE
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - STATE CODE INVALID
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

PWSI130 - Public Water Table (PWT) Creation

a. Function

The objective of this program is to build the Public Water Table (PWT) from the Public Water File (PWF).

b. Inputs:

Public Water File (PWF)

c. Processing Options:

PRCC (PWSI.101)

d. Outputs:

Public Water Table (PWT)

Public Water Table Statistics Report (PWSI.314)

Standard Error Report (MSIS.309)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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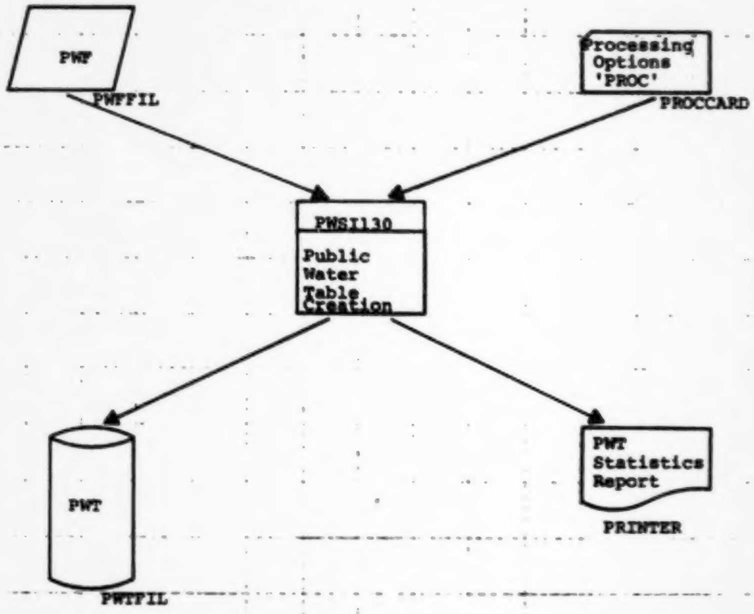
Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

PWSI130


PWF
PWFFIL
Processing Options 'PROC'
PROCCARD
PWSI130
Public Water Table Creation
PWT
PWTFIL
PWT Statistics Report
PRINTER

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Fold under at dotted line.

f. PWSI130 - Error Messages and Remedial Actions

Any error messages that appear for this program can be found in Standard Error Messages & Remedial Actions for PROC Records.

Regulations Subsystem (REGS)

General Description

The Regulations Subsystem (REGS) is a mandatory subsystem whose purpose is to create the Regulations File (RGF). The RGF is a file of records containing the Federal and/or State regulations for contaminants monitored in drinking water. The RGF serves as a basis for determining whether water samples taken from a PWS distribution system are in compliance with chemical, radiological, bacteriological or turbidity State or Federal Regulations. Each record on the RGF pertains specifically to information necessary to define a State or Federal Regulation for one contaminant. In addition, Federal and State Regulation tables such as the fluoride temperature dependent maximum contaminant levels are included in the RGF.

Drinking water quality is determined by comparing the results of laboratory analysis with the requirements of the National Interim Primary Drinking Water Regulations as contained on the RGF. These regulations specify the number of samples required, analysis methods allowed, and contaminant levels permitted. In some instances Federal standards are modifiable by the States (for example, as in 141.27, using alternative analytical techniques). A State may also choose to enforce its own, more stringent standards, in which case, a Public Water System (PWS) may be in violation of the state's standards, but not of the federal standards.

The RGF is used by the Water Quality Compliance Subsystem (WAQC) for determining Maximum Contaminant Level (MCL) and Sampling Violations and for scheduling samples and subsequent analysis for a given PWS.

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

REGSCRET - Create RGF

REGSREPT - RGF Report

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PROC Name: REGSCRET

Function: Job stream to create the Regulations File (RGF) and produce the reports of the Regulations File.

Step 1: This step sorts the Regulations File into the proper sequence for processing.

Step 2: This step executes program REGS010 which creates the Regulations File (RGF).

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 4: This step sorts the Regulations File into the proper sequence for use by other programs.

Step 5: This step executes program REGS020 which produces reports of the Regulations File.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB REGSCRET

RUN FREQUENCY: Upon Request	**JOB DUE OUT**
JOB DESCRIPTION: Create the Regulations File (RGF) and produce the reports of the Regulations File	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
3	MSIS.313	Data Entry Error Report	---	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	Requestor
5	REGS.301	Regulations Report-Chemical Contaminants	---	---	STD	5	---	---	---	Requestor
	REGS.302	Regulations Report-Turbidity Contaminant	---	---	STD	---	---	---	---	Requestor

PAGE 1 OF 3

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB REGSCRET

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Create the Regulations File (RGF) and produce the reports of the Regulations File		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	REGS.303	Regulations Report-Bacti Population Table Sample	---	---	STD	---	---	---	---	Requestor
	REGS.304	Regulations Report-Bacteriology Contaminant			STD	---	---	---	---	Requestor
	REGS.305	Regulation Report-Fluoride MCL Table	---	---	STD	---	---	---	---	Requestor
	REGS.306	Regulations Report-Major Beta Emitters Table	---	---	STD	---	---	---	---	Requestor
	REGS.307	Regulations Report-Gross Alpha Contaminants	---	---	STD	---	---	---	---	Requestor

PAGE 2 OF 3

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB REGSCRET

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Create the Regulations File (RGF) and produce the reports of the Regulations File

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	REGS.308	Regulations Report-Gross Beta Contaminants	---	---	STD	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor

PAGE 3 OF 3

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Input Transactions for the Regulations File using Sort 11

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	REGS.200 REGS.201	Yes*	Contains the Chemical Regulations Transactions
		REGS.202	Yes*	Contains the Turbidity Regulations Transactions
		REGS.203	Yes*	Contains the Population Table for Bacteriological Sampling Transactions
		REGS.204	Yes*	Contains the Bacteriological Regulations Transactions
		REGS.205	Yes*	Contains the Fluoride MCL Table Transactions
		REGS.206	Yes*	Contains the Major Beta Emitters Table Transactions
		REGS.207	Yes*	Contains the Gross Alpha Regulations Transactions
		REGS.208	Yes*	Contains the Gross Beta Regulations Transactions

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input Transactions for the Regulations File using Sort 11

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	REGS.200 thru REGS.208	Yes	Contains the sorted Input Transactions

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes REGS010 which creates the Regulations File (RGF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	CVTRGFL	MSIS.206	Yes	Contains Regulations Code Value Table
	CVTFILE	MSIS.206	Yes	Contains the MSIS Code Value Table
	RGIFILE	REGS.200 thru REGS.208	Yes*	Contains the sorted Input Transactions
	RGIPROC (PROC)	REGS.100	Yes	Contains the Processing Date

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes REGS010 which creates the Regulations File (RGF)	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	REGS.300	Yes	Prints the Data Entry Report
		MSIS.300	Yes	Prints the Update Statistics Report
	RGFFILE	REGS.250	Yes	Contains Chemicals Regulations Records
		REGS.251	Yes	Contains Turbidity Regulations Records
		REGS.252	Yes	Contains Population Table for Bacteriological Sampling Records
		REGS.253	Yes	Contains Bacteriological Regulations Records
		REGS.254	Yes	Contains Fluoride MCL Table Records
		REGS.255	Yes	Contains Major Beta Emitters Table Records
		REGS.256	Yes	Contains Gross Alpha Regulations Records
		REGS.257	Yes	Contains Gross Beta Regulations Records
	SEFFILE	MSIS.207 MSIS.208	Yes	Contains Standard Error Records

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains Regulations Data Element Table
	EMTFIL	MSIS.205	Yes	Contains Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains Regulations Standard Error Records

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **REGSCRET**

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	Yes	Prints Data Entry Error Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Regulations File using Sort 12

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	REGS.250	Yes	Contains Chemicals Regulations Records
		REGS.251	Yes	Contains Turbidity Regulations Records
		REGS.252	Yes	Contains Population Table for Bacteriological Sampling Records
		REGS.253	Yes	Contains Bacteriological Regulations Records
		REGS.254	Yes	Contains Fluoride MCL Table Records
		REGS.255	Yes	Contains Major Beta Emitters Table Records
		REGS.256	Yes	Contains Gross Alpha Regulations Records
		REGS.257	Yes	Contains Gross Beta Regulations Records

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Regulations File using Sort 12	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	REGS.250 thru REGS.257	Yes	Contains sorted Regulations Records

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes REGS020 which produces Reports of the Regulation File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	RGFFILE	REGS.250 thru REGS.257	Yes	Contains sorted Regulations Records
	PROCFILE	REGS.100	Yes*	Contains Processing Date

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes REGS020 which produces Reports of the Regulation File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	REGS.301	Yes	Prints Chemical Regulations Report
		REGS.302	Yes	Prints Turbidity Regulations Report
		REGS.303	Yes	Prints Population Table for Bacteriological Sampling Report
		REGS.304	Yes	Prints Bacteriological Regulations Report
		REGS.305	Yes	Prints Fluoride MCL Table Report
		REGS.306	Yes	Prints Major Beta Emitter Table Report
		REGS.307	Yes	Prints Gross Alpha Regulations Report
		REGS.308	Yes	Prints Gross Beta Regulations Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSCRET

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.REGSTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSCRET

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.REGSTRAN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.RGSEF MSIS.TEMPRGF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.RGSEF MSIS.TEMPRGF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSCRET

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.RGSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPRGF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSCRET

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPRGF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.RGF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.RGF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSCRET

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.RGF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: REGSREPT

Function: Job stream which produces the reports of the Regulations File.

Step 1: This step executes program REGS020 which produces reports of the Regulations File.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB REGSRCPT

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Produces Reports of the Regulations FIle	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
	REGS.301	Regulations Report-Chemical Contaminants	---	---	STD	---	---	---	---	Requestor
	REGS.302	Regulations Report-Turbidity Contaminants	---	---	STD	---	---	---	---	Requestor
	REGS.303	Regulations Report-BACTI Population Table Sample	---	---	STD	---	---	---	---	Requestor
	REGS.304	Regulations Report-Bacteriology Contaminant	---	---	STD	---	---	---	---	Requestor

PAGE 1 OF 2

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB REGSREPT

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Produces Reports of the Regulations File	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	REGS.305	Regulations Report-Fluoride MCL Table	---	---	STD	---	---	---	---	Requestor
	REGS.306	Regulations Report-Major Beta Emitters Table	---	---	STD	---	---	---	---	Requestor
	REGS.307	Regulations Report-Gross Alpha Contaminants	---	---	STD	---	---	---	---	Requestor
	REGS.308	Regulations Report-Gross Beta Contaminants	---	---	STD	---	---	---	---	Requestor

PAGE 2 OF 2

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program REGS020 which Produces Reports of the Regulations File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	RGFFILE	REGS.209	YES	Contains Chemicals Regulations data
		REGS.210	YES	Contains Turbidity Regulations data
		REGS.211	YES	Contains Population Table for Bacteriological Sampling data
		REGS.212	YES	Contains Bacteriological Regulations data
		REGS.213	YES	Contains Fluoride MCL Table data
		REGS.214	YES	Contains Major Beta Emitters Table data
		REGS.215	YES	Contain Gross Alpha Regulations data
		REGS.216	YES	Contains Gross Beta Regulations data
	PROCFILE	REGS.109	YES	Contains the Processing Date

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job REGSREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program REGS020 which Produces Reports of the Regulations File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PRINTER	REGS.301	YES	Prints Chemical Regulations Report
		REGS.302	YES	Prints Turbidity Regulations Report
		REGS.303	YES	Prints Population Table for Bacteriological Sampling Report
		REGS.304	YES	Prints Bacteriological Regulations Report
		REGS.305	YES	Prints Fluoride MCL Table Report
		REGS.306	YES	Prints Major Beta Emitter Table Report
		REGS.307	YES	Prints Gross Alpha Regulations Report
		REGS.308	YES	Prints Gross Beta Regulations Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB REGSREPT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 1 OF 1

REGS010 - Regulations File (RGF) Creation

a. Function

This program will create the Regulations File (RGF).

b. Inputs:

Chemical Contaminant Input Transactions (REGS.101)

Turbidity Contaminant Input Transactions (REGS.102)

Bacteriological Population Input Transactions (REGS.103)

Bacteriological Contaminant Input Transactions (REGS.104)

Fluoride MCL Table Transactions (REGS.105)

Major Beta Emitter Table Transactions (REGS.106)

Gross Alpha Radionuclide Contaminant Transactions (REGS.107)

Gross Beta Radionuclide Contaminant Transactions (REGS.108)

c. Processing Options:

PROC (REGS.100)

d. Outputs:

Data Entry Statistics (REGS.300)

Regulations File (RGF)

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e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

Procedure ____________ Drawn By ____________

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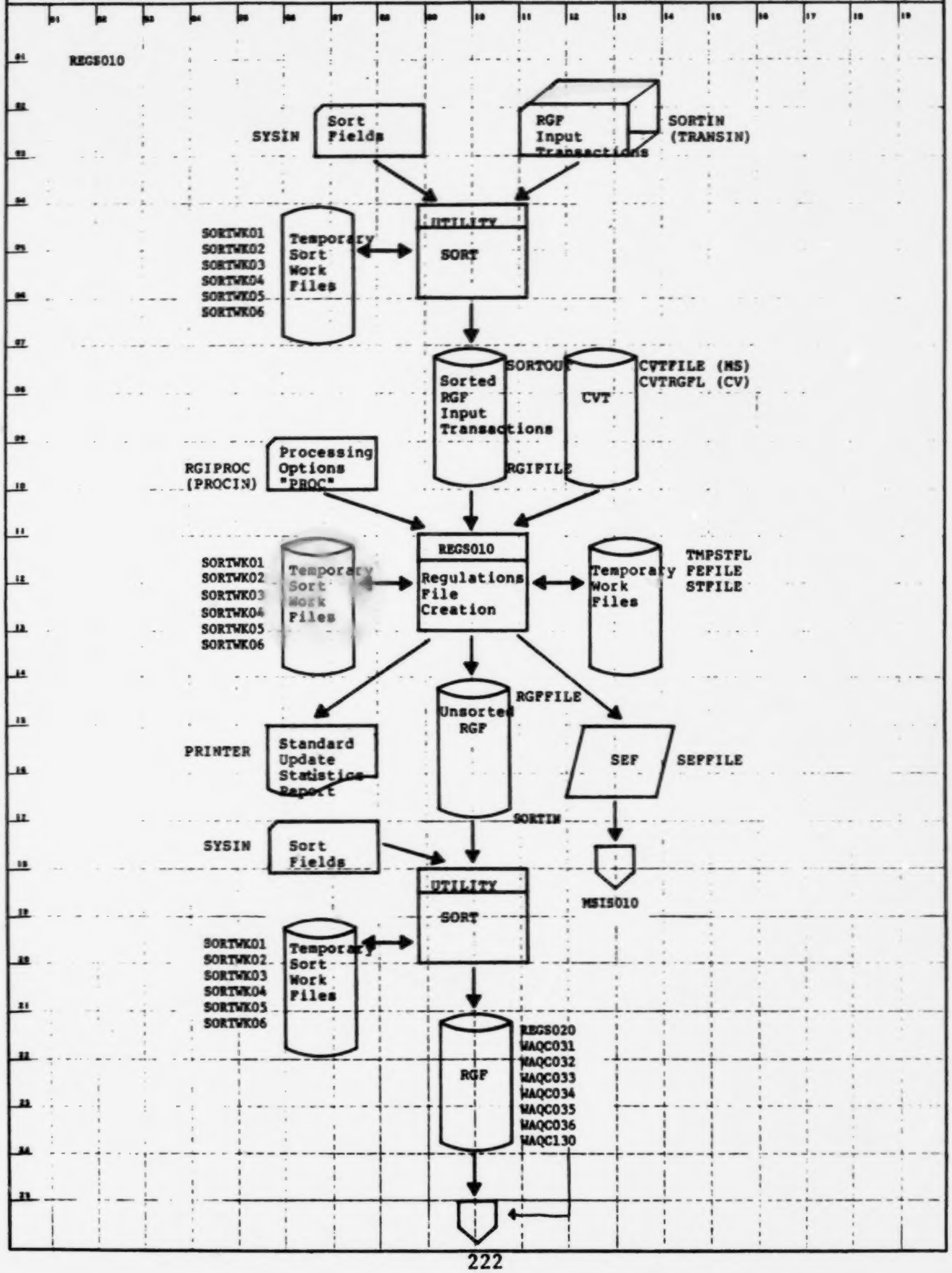
REGS010
SYSIN
Sort Fields
RGF Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted RGF Input Transactions
SORTOUT
RGIFILE
CVT
CVTFILE (MS)
CVTRGFL (CV)
RGIPROC (PROCIN)
Processing Options "PROC"
REGS010
Regulations File Creation
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Temporary Work Files
TMPSTFL
PFFILE
STFILE
PRINTER
Standard Update Statistics Report
Unsorted RGF
RGFFILE
SORTIN
SEF
SEFFILE
MSIS010
SYSIN
Sort Fields
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
RGF
REGS020
WAQC031
WAQC032
WAQC033
WAQC034
WAQC035
WAQC036
WAQC130

f. REGS010 - Error Messages and Remedial Actions

MESSAGE: ERROR - NC PROCESSING OPTION CARDS WERE PROVIDED
REMEDIAL ACTION: obtain processing options cards from data entry and rerun job.

MESSAGE: ERROR - RGI-PROC-ID NOT EQUAL TO PROC
REMEDIAL ACTION: this means that the options card did not begin with 'PROC'. Check for keypunch error and rerun job.

MESSAGE: ERROR - PROC CARD CONTAINS AN INVALID DATE
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - RGI-PROC-OUTPUT NOT EQUAL TO Y OR N
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - RGI-PROC-FIELD-SELECT NOT EQUAL TO N
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - CVT FILE IS MISSING
REMEDIAL ACTION: mount CVT file and rerun job.

MESSAGE: ERROR - CVT-RG-FILE IS MISSING
REMEDIAL ACTION: mount REGS CVT file and rerun job.

REGS020 - Regulations File (RGF) Report

a. Function

This program will list the Regulations File as created.

b. Inputs:

Regulations File (RGF)

c. Processing Options:

PROC (REGS.100)

d. Outputs:

Regulations Report - Chemical Contaminants (REGS.301)

Regulations Report - Turbidity Contaminants (REGS.302)

Regulations Report - Bacteriological Population Table (REGS.303)

Regulations Report - Bacteriological Contaminants (REGS.304)

Regulations Report - Fluoride MCL Table (REGS.305)

Regulations Report - Major Beta Emitter Table (REGS.306)

Regulations Report - Gross Alpha Contaminants (REGS.307)

Regulations Report - Gross Beta Contaminants (REGS.308)

e. I/O Chart

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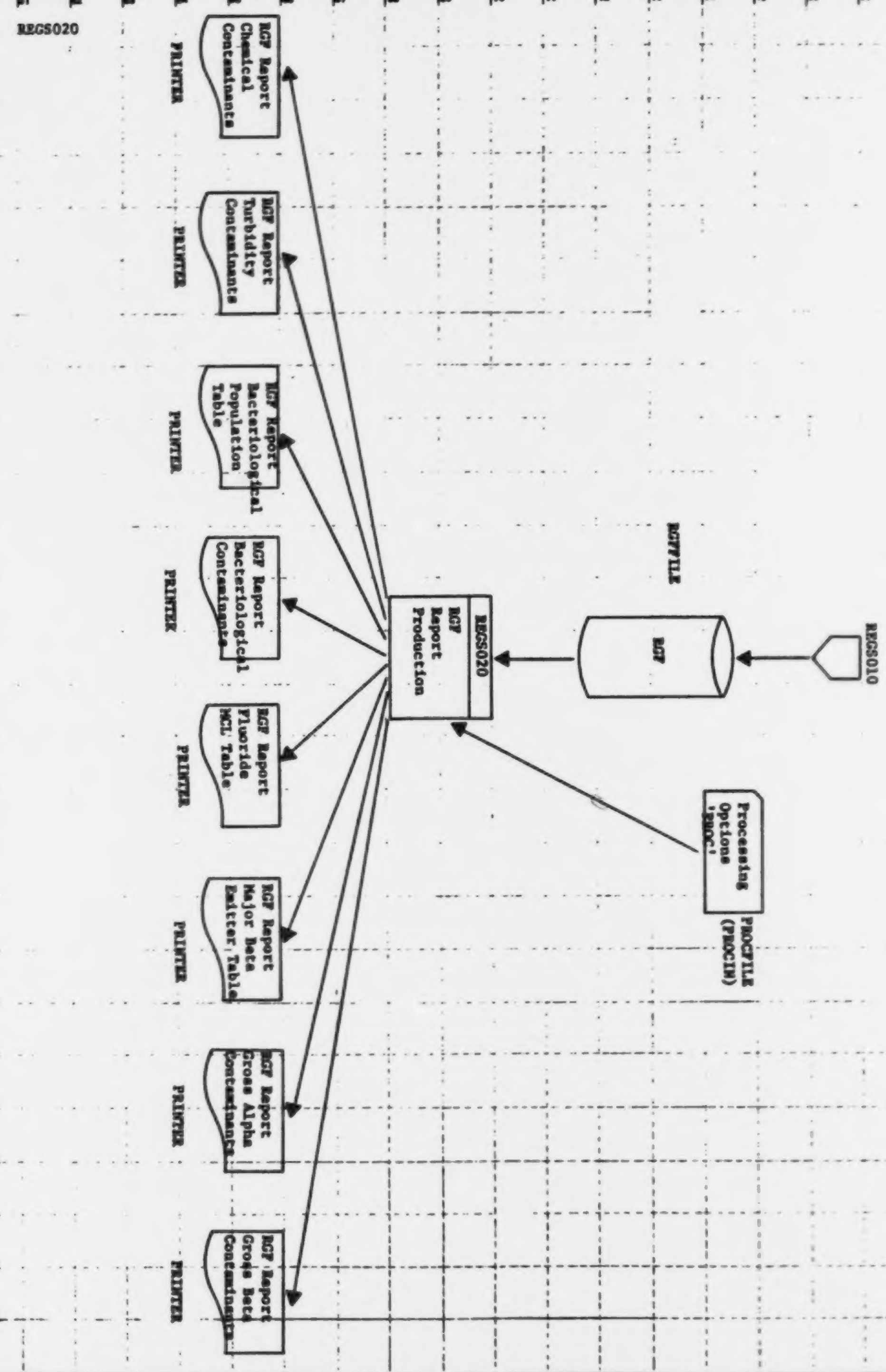
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


REGS020
EGF Report Chemical Contaminants
PRINTER
EGF Report Turbidity Contaminants
PRINTER
EGF Report Bacteriological Population Table
PRINTER
EGF Report Bacteriological Contaminants
PRINTER
EGF Report Fluoride MCL Table
PRINTER
EGF Report Major Beta Emitter Table
PRINTER
EGF Report Gross Alpha Contaminants
PRINTER
EGF Report Gross Beta Contaminants
PRINTER
REGS020
EGF Report Production
EGFFILE
EGF
REGS010
Processing Options 'PROC'
PROCFILE (PROCIN)

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f. REGS020 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records.

MESSAGE: ERROR - POPULATION TABLE CONTAINS OVER 200 ELEMENTS
REMEDIAL ACTION: If all entries are desired, the program must be changed to accept them all.

MESSAGE: ERROR - FLUORIDE TABLE CONTAINS OVER 40 ELEMENTS
REMEDIAL ACTION: Notify programming that the table has exceeded program capacity and the program must be changed to accommodate a larger table.

MESSAGE: ERROR - EMITTERS TABLE CONTAINS OVER 50 ELEMENTS
REMEDIAL ACTION: Notify programming that the table has exceeded program capacity and the program must be changed to accommodate a larger table.

Water Quality Compliance Subsystem (WAQC)

General Description

The Water Quality Compliance Subsystem (WAQC) is a mandatory subsystem which is designed to monitor the quality of the drinking water supplied to the public. Two levels of Public Water System (PWS) compliance with the Safe Drinking Water Act may be defined. The first, or primary level of compliance is achieved by using those treatment, storage, and distribution methods needed to supply safe drinking water. A secondary compliance level is achieved by monitoring the quality of the drinking water being supplied to the public. This is a more indirect level and, therefore, less desirable method of detecting problems. Primary compliance actions are designed to prevent problems before they arise; secondary compliance activities are designed to identify problems and correct them after they have arisen.

Primary compliance can be controlled by a state in two ways: by a permit program for new PWS's; or by periodic sanitary surveys. A permit program is essentially a sanitary engineering task. The Public Water System Inventory Subsystem (PWSI) will be used to maintain most data elements related to facilities. The Sanitary Survey Subsystem (SRVY) is used to schedule inspections of PWS facilities and thus provides a second way of controlling basic compliance.

Secondary compliance is accomplished by monitoring the sampling and analysis of finished water. The WAQC is designed to provide the means for this monitoring process.

There are eight requirements in the Primary Drinking Water Regulations that a PWS could violate:

(1) Maximum Contaminant Level (MCL).

(2) Sampling requirements: number, frequency, and methodology;

(3) Check sampling;

(4) State notification;

(5) Public notification;

(6) Treatment techniques;

(7) Violation of compliance schedule under a variance or exemption;

(8) Record Keeping.

The main purpose of the WAQC is to identify violations of the first three of these regulatory requirements. In this way, the WAQC compliments the PWSI and SRVY subsystems by providing data management for tracing non-compliance with the Safe Drinking Water Act.

Secondary compliance can be further classified as compliance with the Federal Interim Primary Drinking Water Regulations or compliance with the state's own standards. There is a need to identify both, and also to indicate if non-compliance is temporarily overruled by variances or exemptions. WAQC responds to this need by using the Regulations File (RGF) and the Public Water File (PWF).

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

WAQCCOM1 - Violations Reports

WAQCCOM2 - Organic & Inorganic Chemical Compliance

WAQCCOM3 - Violation Warnings Reports

WAQCCOM4 - Operation Report Violations, Resort PSF

WAQCLBTC - Create Lab Table

WAQCPSFU - PSF Update

WAQCSAFD - SAF Update

WAQCSAFP - SAF Purge

WAQCSAFS - SAF Select

WAQCSCHD - Scheduling Report

WAQCVIFS - VIF Select

WAQCVIFU - VIF Update

PROC WAQCCOM1

Function: Job stream sorts the Violations Report File in order to produce various types of reports.

Step 1: This step executes program WAQC025 which produces the Contaminant Sample Analysis File (SAF).

Step 2: This step sorts the Periodic Sample File (PSF) into the proper sequence for processing by WAQC031 and WAQC034.

Step 3: This step executes program WAQC031 which edits for turbidity violations.

Step 4: This step sorts the processing options file into the proper sequence for processing.

Step 5: This step sorts the Violations Report File and produces the Turbidity MCL Violations Report.

Step 6: This step sorts the processing options file into the proper sequence for processing.

Step 7: This step sorts the Violations Report File and produces the Turbidity Sampling Violations Report.

Step 8: This step executes program WAQC034 which edits for bacteriological violations.

Step 9: This step sorts the "SORT" processing options into the proper sequence for processing.

Step 10: This step executes program WAQC050 which sorts the Violations Report File and produces the Bacteriological MCL Violations Report.

Step 11: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 12: This step executes program WAQC070 which sorts the Violation Report File and produces the Bacteriological Sampling Violation Report.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM1

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Sorts the Violations Report File in Order to Produce Various Types of Reports		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
2	---	---	---	---	---	2	---	---	---	---
3	WAQC.326	Violations Warning Report	---	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	---	---	---	---	---	5	---	---	---	---
6	---	---	---	---	---	6	---	---	---	--
7	---	---	---	---	---	7	---	---	---	---
8	WAQC.326	Violations Warning Report	---	---	STD	8	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM1

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Sorts the Violations Report File in Order to Produce Various Types of Reports		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
10	WAQC.308	Turbidity MCL Violations Report	---	---	STD	10	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
11	---	---	---	---	---	11	---	---	---	---
12	WAQC.312	Turbidity Sampling Violations Report	---	---	STD	12	---	---	---	Requestor
	MSIS.309	Sandard Error Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM1

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Sorts the Violations Report File in Order to Produce Various Types of Reports

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC025, produces Contaminant Sample Analysis Files (SAF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SAFFILE	WAQC.254	Yes	Contains Sample Analysis Records
	PROC (PROC)	WAQC.138	Yes*	Contains processing date and other criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC025, produces Contaminant Sample Analysis Files (SAF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SAFTURB	WAQC.221 WAQC.254	Yes	Contains Turbidity Sample Analysis Records
	SAFINOR	WAQC.221 WAQC.254	Yes	Contains Inorganic Chemical Sample Analysis Records
	SAFORGN	WAQC.221 WAQC.254	Yes	Contains Organic Chemical Sample Analysis Records
	SAFBACT	WAQC.221 WAQC.254	Yes	Contains Bacteriological Sample Analysis Records
	SAFALPH	WAQC.221 WAQC.254	Yes	Contains Gross Alpha Sample Analysis Records
	SAFBETA	WAQC.221 WAQC.254	Yes	Contains Gross Beta Sample Analysis Records
	OPERRPT	WAQC.221 WAQC.254	Yes	Contains Operation Report Options Records
	PRTFILE	MSIS.309	Yes	Prints the Standard Error Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Periodic Sample File (PSF) into proper sequence for processing by WAQC031 and WAQC034

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTIN	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAOCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Periodic Sample (PSF) into proper sequence for processing by WAOC031 and WAOC034

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTOUT	WAQC.251 WAQC.252	Yes	Contains sorted Periodic Sample Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC031, edits for Turbidity Violations

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	REFFILE	REGS.251	Yes	Contains Regulation Turbidity Records
	CSFFILE	WAQC.257	Yes	Contains Compliance Status Records
	PWFFILE	PWSI.200	Yes	Contains Public Water Records
	PSFFILE	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records
	SAFFILE	WAQC.221 WAQC.254	Yes	Contains Sample Analysis Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC031, edits for Turbidity Violations

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	CSFOFILE	WAQC.257	Yes	Contains Turbidity Compliance Status Records
	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains Turbidity Sample Analysis Records
	PSFOFILE	WAQC.251 WAQC.252	Yes	Contains Turbidity Periodic Sample Records
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains Turbidity MCL Violations Records
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains Turbidity Sampling Violations Records
	VIFFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains Turbidity Violations and Update Transactions Records
	PRTFILE	WAQC.326	Yes	Prints the Turbidity Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 20

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort20

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Violations Report File and produces the Turbidity MCL Violations File	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORT	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DET	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains Turbidity Maximum Contaminant Level Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Violations Report File and produces the Turbidity MCL Violations File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRTFILE	WAQC.308	Yes	Prints the Turbidity MCL Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAOCCOM1

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Violations Report File and produces the Turbidity Sampling Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	PROCFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DETABLE	MSIS.331	Yes	Contains the Violations Data Element Table
	VIFIN	WAQC.213 WAQC.231	Yes	Contains the Turbidity Sampling Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Violations Report File and produces the Turbidity Sampling Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	PRINTER	WAQC.312	Yes	Prints the Turbidity Sampling Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Execute Program WAQC034, edits for Bacteriological Violations

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	RGSFILE	REGS.253 REGS.252	Yes	Contains Regulation Bacteriological Records
	CSFFILE	WAQC.257	Yes	Contains Compliance Status Records
	PWFFILE	PWSI.200	Yes	Contains Public Water Records
	LBTFILE	WAQC.256 WAQC.250	Yes	Contains the Laboratory Table
	PSFFILE	WAQC.252 WAQC.251	Yes	Contains Periodic Sample Records
	SAFFILE	WAQC.221 WAQC.254	Yes	Contains Bacteriological Sample Analysis Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC034, edits for Bacteriological Violations

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains Bacteriological Updated Sample Analysis Records
	PSFOFILE	WAQC.252	Yes	Contains Bacteriological Remaining Sample Records
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains Bacteriological MCL Violations Records
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains Bacteriological Sampling Violations Records
	VIFFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains Bacteriological VIF Update Transaction Records
	CSFOFILE	WAQC.257	Yes	Contains Compliance Status Records
	PRTFILE	WAQC.326	Yes	Prints the Bacteriological Violations Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC050, sorts the Violations Report File and produces the Bacteriological MCL Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	SORT	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DET	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains the Bacteriological Maximum Contaminant Level Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC050, sorts the Violations Report File and produces the Bacteriological MCL Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRTFILE	WAQC.307	Yes	Prints the Bacteriological MCL Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC070, sorts the Violation Report File and produces the Bacteriological Sampling Violation Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
12	PROCFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DETABLE	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIN	WAQC.213 WAQC.231	Yes	Contains the Bacteriological Sampling Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM1

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC070, sorts the Violations Report File and produces the Bacteriological Sampling Violation Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
12	PRINTER	WAQC.311	Yes	Prints the Bacteriological Sampling Violations Report
		WAQC.309 WAQC.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCSAFT MSIS.WAQCSAFI MSIS.WAQCSAFO MSIS.WAQCSAFC MSIS.WAQCSAFA MSIS.WAQCSAFB MSIS.WAQCOPRT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 1 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if theywere kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPPSF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCSAFT MSIS.TEMPPSF

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 2 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.CSF(+0) MSIS.WAQCSAFT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.CSF(+1) MSIS.TEMPSAFT MSIS.WAQCPSFT MSIS.WAQCTRBM MSIS.WAQCTRBS MSIS.WAQCTRNT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart thejob from step 3.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 3 continued	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCOPRT MSIS.TEMPPSF MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRCT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNT MSIS.WAQCTRBS MSIS.WAQCTRBM MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.TEMPPSF MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCPRCT

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 4 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCT MSIS.WAQCTRBM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNT MSIS.WAQCTRBS MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.TEMPPSF MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCPRCT MSIS.WAQCTRBM

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 5 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRCT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNT MSIS.WAQCTRBS MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.TEMPSF MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCON1

RESTART PROCEDURE #	DESCRIPTION
Step 6 - ntinued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCT MSIS.WAQCTRBS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.TEMPPSF MSIS.WAQCTRNT MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFC MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCPRCT MSIS.WAQCTRBS

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 7 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.CSF(+1) MSIS.TEMPPSF MSIS.WAQCSAFC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSAFC MSIS.WAQCPSFC MSIS.WAQCBCTM MSIS.WAQCBCTS MSIS.WAQCTRNC MSIS.CSF(+2) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 8 continued	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCTRNT MSIS.TEMPPSF MSIS.WAQCSAFC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRCC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+2) MSIS.WAQCTRNC MSIS.WAQCPSFC MSIS.TEMPSAFC MSIS.WAQCTRNT MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCBCTM MSIS.WAQCBCTS

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 9 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCC MSIS.WAQCBCTM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+2) MSIS.WAQCTRNC MSIS.WAQCBCTS MSIS.WAQCPSFC MSIS.TEMPSAFC MSIS.WAQCTRNT MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCPRCC MSIS.WAQCBCTM

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 10 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 11	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRCC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 11. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+2) MSIS.WAQCTRNC MSIS.WAQCBCTS MSIS.WAQCPSFC MSIS.TEMPSAFC MSIS.WAQCTRNT MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.WAQCOPRT MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFO MSIS.WAQCSAFI

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 11 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 12	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCC MSIS.WAQCBCTS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 12. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+2) MSIS.WAQCTRNC MSIS.WAQCPSFC MSIS.TEMPSAFC MSIS.WAQCTRNT MSIS.WAQCPSFT MSIS.TEMPSAFT MSIS.CSF(+1) MSIS.WAQCSAFB MSIS.WAQCSAFA MSIS.WAQCSAFO MSIS.WAQCSAFI MSIS.WAQCOPRT MSIS.WAQCPRCC MSIS.WAQCBCTS

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM1

RESTART PROCEDURE #	DESCRIPTION
Step 12 continued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: WAQCCOM2

Function: Job stream to determine the compliance for Inorganic and Organic sample data.

Step 1: This step executes program WAQC032 which determines compliance for Inorganic Chemical Sample Data.

Step 2: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 3: This step executes program WAQC040 which produces the Inorganic MCL Chemical Violations Report.

Step 4: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 5: This step executes program WAQC060 which produces the Inorganic Chemical Sampling Violations Report.

Step 6: This step executes program WAQC033 which determines compliance for organic chemical sample data.

Step 7: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 8: This step executes program WAQC040 which produces the Organic MCL Chemical Violations Report.

Step 9: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 10: This step executes program WAQC060 which produces the Organic Chemical Sampling Violations Report.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM2

RUN FREQUENCY:	Upon Request	**JOB DUE OUT**
JOB DESCRIPTION:	Determines the compliance for Inorganic and Organic Sample Data	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	WAQC.326	Violations Warning Report	---	---	STD	1	---	---	---	Requestor
2	---	---	---	---	---	2	---	---	---	---
3	WAQC.309	Radiological MCL Violations Report	---	---	STD	3	---	---	--	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	WAQC.313	Radiological Sampling Violations	---	---	STD	5	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM2

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Determines the compliance for Inorganic and Organic Sample Data	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
6	MSIS.326	Violations Warning Report	---	---	STD	6	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	WAQC.309	Radiological MCL Violations Report	---	---	STD	8	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	--	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM2

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Determines the compliance for Inorganic and Organic Sample Data	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
9	---	---	---	---	---	9	---	---	---	---
10	WAQC.313	Radiological Sampling Violations Report	---	---	---	10	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Periodic Sample File (PSF) into proper sequence for processing by WAQC032

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
0	SORTIN	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Periodic Sample File (PSF) into proper sequence for processing by WAQC032

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
0	SORTOUT	WAQC.251 WAQC.252	Yes	Contains sorted Periodic Sample Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes Program WAQC032 which determines compliance for inorganic chemical sample data	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PSFFILE	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records
	SAFFILE	WAQC.221 WAQC.254	Yes	Contains Inorganic Chemicals Sample Analysis Records
	CVTFILE	MSIS.206	Yes	Contains the MSIS Code Value Table
	RGFFILE	REGS.250	Yes	Contains the Regulations Table
	LBTFILE	WAQC.250 WAQC.256	Yes	Contains the Laboratory Table
	CSFFILE	WAQC.257	Yes	Contains Compliance Status Records
	PWFFILE	PWSI.200	Yes	Contains Public Water Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC032 which determines compliance for inorganic chemical sample data

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains Inorganic Chemical Sample Analysis Records
	PSFOFILE	WAQC.252	Yes	Contains Inorganic Chemical Remaining Periodic Sample Records
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains Inorganic Chemical MCL Violations Records
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains Inorganic Chemical Sampling Violations Record
	VIFIFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains Inorganic Chemical VIF update Transactions Record
	PWFTRAN	PWSI.223	Yes	Contains Inorganic Chemical PWF update Transactions Records
	CSFOFILE	WAQC.257	Yes	Contains Compliance Status Records
	CHKPNT		Yes	Contains Core and Control Inofrmation if an abnormal termination occurs
	PRTFILE	WAQC.326	Yes	Prints the Inorganic Chemical Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Sorts the Sort Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes Program WAQC040 which produces the Inorganic MCL Chemical Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORT	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DET	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains Chemical Maximum Contaminant Level Violations Record

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC040 which produces the Inorganic MCL Chemical Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRTFILE	WAQC.306	Yes	Prints the Chemical MCL Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes Program WAQC060 which produces the Inorganic Chemical Sampling Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PROCFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DETABLE	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIN	WAQC.213 WAQC.231	Yes	Contains Chemical Sampling Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC060 which produces the Inorganic Chemical Sampling Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	WAQC.310	Yes	Prints the Chemical Sampling Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC033 which determines compliance for Organic Chemical Sample Data

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PSFFILE	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records
	SAFFILE	WAQC.221 WAQC.254	Yes	Contains Organic Chemical Sample Analysis Records
	CVTFILE	MSIS.206	Yes	Contains the MSIS Code Value Table
	RGFFILE	REGS.250	Yes	Contains the Regulations Records
	LBTFILE	WAQC.250 WAQC.256	Yes	Contains the Laboratory Table
	CSFFILE	WAQC.257	Yes	Contains Compliance Status Records
	PWFFILE	PWSI.200	Yes	Contains Public Water Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes Program WAQC033 which determines compliance for Organic Chemical Sample Data	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains Organic Chemicals Sample Analysis Records
	PSFOFILE	WAQC.252	Yes	Contains Organic Chemicals Remaining Periodic Sample Records
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains Organic Chemicals MCL Violations Records
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains Organic Chemicals Sampling Violations Records
	VIFIFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains Organic Chemicals VIF update Transactions Records
	PWFTRAN	PWSI.223	Yes	Contains Organic Chemicals PWF update Transactions Records
	CSFOFILE	WAQC.257	Yes	Contains Compliance Status Records
	CHKPNT		Yes	Contains Core and Control Information if an abnormal termination occurs
	PRTFILE	WAQC.326	Yes	Prints the Organic Chemical Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes Program WAQC040 which produces the Organic MCL Chemical Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SORT	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DET	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains the Chemical Maximum Contaminant Level Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC040 which produces the Organic MCL Chemical Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRTFILE	WAQC.306	Yes	Prints the Chemical MCL Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC060 which produces the Organic Chemical Sampling Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PROCFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	DETABLE	MSIS.201	Yes	Contains the Violations Data Element Table
	VIFIN	WAQC.213 WAQC.231	Yes	Contains Chemical Sampling Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM2

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC060 which produces the Organic Chemical Sampling Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRINTER	WAQC.310	Yes	Prints the Chemical Sampling Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept:
	None
	If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:
	A. Uncatalog and scratch any of the following data sets that are cataloged:
	MSIS.PSFI
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged:
	MSIS.PSFI
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.WAQCSAFI MSIS.CSF(+0) If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSAFI MSIS.WAQCPSFI MSIS.WAQCINOM MSIS.WAQCINOS MSIS.WAQCTRNI MSIS.WAQCPWFI MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 2 continued	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFI MSIS.WAQCPSFI MSIS.WAQCINOM MSIS.WAQCINOS MSIS.WAQCTRNI MSIS.WAQCPWFI MSIS.CSF(+1) MSIS.PSFI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFI MSIS.WAQCPSFI MSIS.WAQCINOM MSIS.WAQCINOS MSIS.WAQCTRNI MSIS.WAQCPWFI MSIS.CSF(+1) MSIS.PSFI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCI MSIS.WAQCINOM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.WAQCPWFI MSIS.TEMPSAFI MSIS.CSF(+1) MSIS.WAQCPSFI MSIS.WAQCINOS MSIS.WAQCTRNI MSIS.WAQCINOM B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.TEMPSAFI MSIS.WAQCPSFI MSIS.WAQCTRNI MSIS.WAQCPWFI MSIS.CSF(+1) MSIS.WAQCINOS B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCI MSIS.WAQCINOS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.WAQCPSFI MSIS.WAQCPWFI MSIS.WAQCINOS MSIS.TEMPSAFI MSIS.WAQCTRNI MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.PSFI MSIS.WAQCSAFO MSIS.CSF(+1) MSIS.PWF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSAFO MSIS.CSF(+2) MSIS.WAQCPSFO MSIS.WAQCRGS MSIS.WAQCORGM MSIS.WAQCPWFO MSIS.WAQCTRNO B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.TEMPSAFI MSIS.WAQCPSFI MSIS.WAQCTRNI MSIS.WAQCPWFI MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.TEMPSAFO MSIS.CSF(+2) MSIS.TEMPSAFI MSIS.WAQCPSFO MSIS.WAQCPSFI MSIS.WAQCORGM MSIS.WAQCTRNI MSIS.WAQCORGS MSIS.WAQCPWFI MSIS.WAQCTRNO MSIS.CSF(+1) MSIS.WAQCPWFO B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCO MSIS.WAQCORGM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.TEMPSAFO MSIS.TEMPSAFI MSIS.WAQCORGS MSIS.WAQCPSFI MSIS.WAQCTRNO MSIS.WAQCTRNI MSIS.WAQCPWFO MSIS.WAQCPWFI MSIS.CSF(+2) MSIS.CSF(+1) MSIS.WAQCPSFO MSIS.WAQCORGM B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE # | DESCRIPTION

Step 10

(1) Check the following data sets to see if they were kept:

None

If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:

A. Uncatalog and scratch any of the following data sets that are cataloged.

None

B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 10.

(2) A. Uncatalog and scratch any of the following data sets that were cataloged:

MSIS.PSFI
MSIS.TEMPSAFO
MSIS.WAQCTRNI
MSIS.WAQCPWFO
MSIS.WAQCPSFO
MSIS.WAQCPSFI
MSIS.WAQCTRNO
MSIS.CSF(+1)
MSIS.TEMPSAFI
MSIS.WAQCORGS
MSIS.WAQCPWFI
MSIS.CSF(+2)

B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM2

RESTART PROCEDURE #	DESCRIPTION
Step 11	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCO MSIS.WAQCORGS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 11. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSFI MSIS.TEMPSAFO MSIS.TEMPSAFI MSIS.WAQCTRNO MSIS.WAQCPSFI MSIS.WAQCPWFO MSIS.WAQCTRNI MSIS.CSF(+2) MSIS.WAQCPWFI MSIS.WAQCPSFO MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: WAQCCOM3

Function: Job stream which produces four (4) types of Violations Warnings Reports which are:

1. Gross Alpha Violations Report
2. Gross Alpha Sampling Violations Report
3. Gross Beta MCL Violations Report
4. Gross Beta Sampling Violations Report

Step 1: This step executes program WAQC035 which determines compliance for natural radionuclide sample data.

Step 2: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 3: This step executes program WAQC041 which produces the Gross Alpha Violations Report.

Step 4: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 5: This step executes program WAQC061 which produces the Gross Alpha Sampling Violations Report.

Step 6: This step executes program WAQC036 which determines compliance for man-made radionuclide sample data.

Step 7: This steps sorts the Sort Processing Options File into the proper sequence for processing.

Step 8: This step executes program WAQC041 which produces the Gross Beta MCL Violations Report.

Step 9: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 10: This step executes program WAQC061 which produces the Gross Beta Sampling Violations Report.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCOOM3

RUN FREQUENCY: Upon Request | JOB DUE OUT

JOB DESCRIPTION: Produces Four (4) Violations Warning Reports

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	WAQC.326	Violations Warning Report	---	---	STD	1	---	---	---	Requestor
2	---	---	---	---	---	2	---	---	---	---
3	WAQC.307	Bacteriological MCL Violations Report	---	---	STD	3	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	WAQC.313	Radiological Sampling Violations Report	---	---	STD	5	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM3

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Produces Four (4) Violations Warning Reports

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
6	---	---	---	---	---	6	---	---	---	---
7	---	---	---	---	---	7	---	---	---	---
8	WAQC.307	Bacteriological MCL Violations File	---	---	STD	8	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---
10	WAQC.311	Bacteriological Sampling Violations Report	---	---	STD	10	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM3

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Produces Four (4) Violations Warning Reports		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sort the Periodic SamPle File (PSF) using Sort24	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	WAQC.251 WAQC.252	Yes	Contains Periodic Sample Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sort the Periodic Sample File (PSF) using Sort24

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.251 WAQC.252	Yes	Contains sorted Periodic Sample Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC035 which determines compliance for Natural Radionuclide Sample data

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PSFFILE	WAQC.251 WAQC.252	Yes	Contains Periodic Sample File data
	SAFFILE	WAQC.221	Yes*	Contains Gross Alpha Sample Analysis Records
	RGFFILE	REGS.256	Yes	Contains Regulations File data
	LBTFILE	WAQC.250 WAQC.256	Yes	Contains Laboratory Table data
	CSFFILE	WAQC.257	Yes	Contains Compliance Status File data
	PWFFILE	PWSI.200	Yes	Contains Public Water File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC035 which determines compliance for Natural Radionuclide Sample data	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains the Updated Gross Alpha Sample Analysis File
	PSFOFILE	WAQC.252	Yes	Contains the Gross Alpha Remaining Periodic Sample File
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains the Gross Alpha MCL Violations File
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains the Gross Alpha Sampling Violations File
	VIFFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains the Gross Alpha VIF Update Transaction File
	CSFOFILE	WAQC.257	Yes	Contains the Updated Compliance Status File
	PRTFILE	WAQC.326	Yes	Prints the Gross Alpha Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort processing options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	WAQC.113	Yes*	Contains the 'SORT' Processing Option Records to be sorted.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort processing options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	WAQC.212	Yes	Contains the sorted 'SORT' Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC041 which produces the Gross Alpha Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORT	WAQC.212	Optional	Contains the 'SORT' Processing Option Records
	DET	MSIS.201	Yes	Contains Data Element Table data
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains the Radiological MCL Compliance Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC041 which produces the Gross Alpha Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRTFILE	WAQC.309 MSIS.309 MSIS.311	Yes	Prints the Radiological MCL Violations Report and the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN	WAQC.113	Yes*	Contains the 'SORT' Processing Options Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	WAQC.212	Yes	Contains the sorted 'Sort' Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC061 which produces the Gross Alpha Sampling Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	CARDFIL	WAQC.212	Optional	Contains the 'Sort' Processing Option Records
	DETABLE	MSIS.201	Yes	Contains Data Element Table data
	VIFIN	WAQC.213 WAQC.231	Yes	Contains the Radiological Sampling Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC061 which produces the Gross Alpha Sampling Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	WAQC.313 MSIS.309 MSIS.311	Yes	Prints the Radiological Sampling Violations Report and the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC036 which determines compliance for Manmade Radionuclide Sample data

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	PSFFILE	WAQC.251 WAQC.252	Yes	Contains the Periodic Sample File data
	SAFFILE	WAQC.221 WAQC.254	Yes*	Contains the Gross Beta Sample Analysis File
	RGFFILE	REGS.257 REGS.255	Yes	Contains the Regulations File data
	LBTFILE	WAQC.250 WAQC.256	Yes	Contains the Laboratory Table data
	CSFFILE	WAQC.257	Yes	Contains the Compliance Status File data
	PWFFILE	PWSI.200	Yes	Contains the Public Water File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC036 which determines compliance for Manmade Radionuclide Sample data

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SAFOFILE	WAQC.221 WAQC.254	Yes	Contains the Updated Gross Beta Sample Analysis File
	PSFOFILE	WAQC.252	Yes	Contains the Gross Beta Remaining Periodic Sample File
	VIFMCL	WAQC.213 WAQC.216	Yes	Contains the Gross Beta MCL Violations File
	VIFSPLG	WAQC.213 WAQC.231	Yes	Contains the Gross Beta Sampling Violations File
	VIFFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains the Gross Beta VIF Update Transactions File
	CSFOFILE	WAQC.257	Yes	Contains the Updated Compliance Status File
	PRTFILE	WAQC.326	Yes	Prints the Gross Beta Warnings Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SORTIN	WAQC.113	Yes*	Contains the 'Sort' Processing Option Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SORTOUT	WAQC.212	Yes	Contains the sorted 'Sort' Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC041 which produces the Gross Beta MCL Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORT	WAQC.212	Optional	Contains the 'Sort' Processing Option Records
	DET	MSIS.201	Yes	Contains the Data Element Table data
	VIFIFILE	WAQC.213 WAQC.216	Yes	Contains the Radiological MCL Compliance Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC041 which produces the Gross Beta MCL Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	PRTFILE	WAQC.309 MSIS.309 MSIS.311	Yes	Prints the Radiological MCL Violations Report and the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	SORTIN	WAQC.113	Yes*	Contains the 'Sort' Processing Option Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options File using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	SORTOUT	WAQC.212	Yes	Contains the Sorted 'Sort' Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC061 which produces the Gross Beta Sampling Violations Report	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	CARDFIL	WAQC.212	Optional	Contains the 'Sort' Processing Option Records
	DETABLE	MSIS.201	Yes	Contains the Data Element Table data
	VIFIN	WAQC.213 WAQC.231	Yes	Contains the Radiological Sampling Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM3

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC061 which produces the Gross Beta Sampling Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	PRINTER	WAQC.313 MSIS.309 MSIS.311	Yes	Prints the Radiological Sampling Violations Report and the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: MSIS.PSF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. MSIS.TEMPPSF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.TEMPPSF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.TEMPPSF MSIS.CSF(+0) MSIS.WAQCSAFA MSIS.PWF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCALPM MSIS.WAQCALPS MSIS.WAQCTRNA MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCALPM MSIS.WAQCALPS MSIS.WAQCTRANA MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCALPM MSIS.WAQCALPS MSIS.WAQCTRNA MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.WAQCALPM MSIS.WAQCPRCA If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCALPS MSIS.WAQCTRNA MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. MSIS.WAQCPRCA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCALPS MSIS.WAQCTRNA MSIS.CSF(+1) MSIS.WAQCPRCA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.WAQCALPS MSIS.WAQCPRCA If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCTRNA MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.PSF MSIS.CSF(+1) MSIS.WAQCSAFB MSIS.PWF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSAFB MSIS.WAQCPSFB MSIS.WAQCBETM MSIS.WAQCBETS MSIS.WAQCTRNB MSIS.CSF(+2) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFA MSIS.WAQCBETM MSIS.WAQCPSFA MSIS.WAQCTRNB MSIS.WAQCTRNA MSIS.WAQCPSFB MSIS.CSF(+1) MSIS.WAQCBETS MSIS.TEMPSAFB MSIS.CSF(+2) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, to go (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFB MSIS.TEMPPSFB MSIS.TEMPBETM MSIS.TEMPBETS MSIS.TEMPTRNB MSIS.TEMPSAFA MSIS.WAQCPSFA MSIS.WAQCTRNA MSIS.CSF(+1) MSIS.CSF(+2) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION

Step 9

(1) Check the following data sets to see if they were kept:

MSIS.WAQCBETM MSIS.WAQCPRCB

If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:

A. Uncatalog and scratch any of the following data sets that are cataloged.

None

B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 9.

(2) A. Uncatalog and scratch any of the following data sets that were cataloged:

MSIS.TEMPSAFB MSIS.WAQCPSFA
MSIS.TEMPPSFB MSIS.WAQCTRNA
MSIS.TEMPBETS MSIS.CSF(+1)
MSIS.TEMPTRNB MSIS.TEMPSAFA
MSIS.CSF(+2)

B. If any of the following data sets were cataloged and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were cataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFB MSIS.WAQCPSFA MSIS.TEMPPSFB MSIS.WAQCTRNA MSIS.TEMPBETS MSIS.CSF(+1) MSIS.TEMPTRNB MSIS.CSF(+2) MSIS.TEMPSAFA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM3

RESTART PROCEDURE #	DESCRIPTION
Step 11	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCB MSIS.WAQCBETS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 11. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSAFB MSIS.WAQCTRNA MSIS.TEMPPSFB MSIS.CSF(+1) MSIS.TEMPTRNB MSIS.CSF(+2) MSIS.TEMPSAFA MSIS.WAQCPSFA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: WAQCCOM4

Function: This job stream edits and prints operation report violations, merges the various compliance files and sorts the Periodic Sample File into its original sequence.

Step 1: This step executes program WAQC037 which edits for operation report violations.

Step 2: This step sorts the Sort Processing Options File into the proper sequence for processing.

Step 3: This step executes program WAQC090 which sorts the Violations Report File and produces the Operations report Violations Report.

Step 4: This step sorts the contaminant SAF's into the proper sequence for processing.

Step 5: Scratches and uncatalogues the old Sample Analysis File.

Step 6: This step executes program WAQC038 which merges the various Compliance files.

Step 7: Scratches and uncatalogues the old Periodic Sample File.

Step 8: This step sorts the Periodic SAmple File into its original sequence before compliance processing began.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM4

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Edit and Print Operation Report Violations, Merges the Various Compliance Files and Returns the Periodic Sample File to its Original Sequence

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	WAQC.327	Completion Report	---	---	STD	1	---	---	---	Requestor
2	---	---	---	---	---	2	---	---	---	---
3	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.312	Standard Selection Statistics Report	1	---	STD	---	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	—	—	—	—	—	5	—	—	—	—
6	WAQC.306	Chemical MCL Violations Report	1	---	STD	6	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
7	—	—	—	—	—	7	—	—	—	—

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCCOM4

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Edit and Print Operation Report Violations, Merges the Various Compliance Files and Returns the Periodic Sample File to its Original Sequence

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
8	---	---	---	---	---	8	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC037 which edits for Operation Report Violations

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PWFFILE	PWSI.200	Yes	Contains the Public Water File
	COMPLDAT	WAQC.221	Yes	Contains the Compliance Date File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC037 which edits for Operation Report Violations

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	OPRPTVIF	WAQC.213 WAQC.232	Yes	Contains the Operation Report Violations File
	TRANS	WAQC.223	Yes	Contains the Operations Report Violations File
		WAQC.224 WAQC.225	Yes	Contains the Update Transaction File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort processing Options File using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTIN	WAQC.104	Yes*	Contains Sort Processing criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort processing Options File using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTOUT	WAQC.104	Yes	Contains sorted Sort Processing criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	JOB DUE OUT

JOB DESCRIPTION: Executes WAQC090 which sorts the Violations Report File and Produces the Operations Report Violations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PROCFIL	WAQC.104	Yes	Contains sorted Sort Processing criteria
	DETABLE	MSIS.201	Yes	Contains the Violatons Data Element Table
	VIFIN	WAQC.213 WAQC.232	Yes	Contains the Operation Report Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC090 which sorts the Violations Report File and Produces the Operations Report Violations Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	WAQC.325	Yes	Prints the Operations Report Violations Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Contaminant SAPS using Sort21	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	WAQC.254	Yes	TEMSAFE-contains the Turbidity Sample Analysis File
		WAQC.254	Yes	TEMPSAFI-contains the Inorganic Sample Analysis File
		WAQC.254	Yes	TEMPSAFO-contains the organic Sample Analysis File
		WAQC.254	Yes	TEMPSAFC-contains the Bacteriological Sample Analysis File
		WAQC.254	Yes	TEMPSAFA-contains the Alpha Sample Analysis File
		WAQC.254	Yes	TEMPSAFB-contains the Beta Sample Analysis File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Contaminant SAFS using Sort21

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	WAQC.254	Yes	Contains the sorted and merged Sample Analysis File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Runs IEFBR14 to uncatlog the Sample Analysis File	

STEP	**INPUT DDNAME**	**EXHIBIT #**	**REQUIRED**	**PURPOSE**
5	IN	WAQC.254	Yes	Contains the old Sample Analysis File (SAF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC038 which merges the Various Compliance Files	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	SAFIFILE	WAQC.221 WAQC.254	Yes	Contains the sorted and merged Sample Analysis File
	PWFIINOR	PWSI.223	Yes*	Contains the Inorganic Chemioal Public Water File (PWF) Update Transaction File
	PWFIORGN	PWSI.223	Yes*	Contains the Organic Chemical Public Water File (PWF) Update Transaction File
	VIFITURB	WAQC.223 WAQC.224	Yes	Contains the Turbidity Violations File
		WAQC.225	Yes	Contains the Update Transaction File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQCU38 which merges the Various Compliance Files	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	VIFINOR	WAQC.223 WAQC.224	Yes	Contains the Inorganic Chemical Violations File (VIF)
		WAQC.225	Yes	Contains the Update Transaction File
	VIFIORGN	WAQC.223 WAQC.224	Yes	Contains the Organic Chemical Violations File (VIF)
		WAQC.225	Yes	Contains the Update Transaction File
	VIFIBACT	WAQC.223 WAQC.224	Yes	Contains the Bacteriological Violations File (VIF)
		WAQC.225		Contains the Update Transaction File
	VIFIALPH	WAQC.223 WAQC.224	Yes	Contains the Gross Alpha Violations File (VIF)
		WAQC.225	Yes	Contains the Update Transaction File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC038 which merges the Various Compliance Files	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	VIFIBETA	WAQC.223 WAQC.224	Yes	Contains the Gross Beta Violations File (VIF)
		WAQC.225	Yes	Contains the Update Transaction File
	VIFIOPER	WAQC.223 WAQC.224	Yes	Contains the Operation Report Violations File (VIF)
		WAQC.225	Yes	Contains the Update Transaction File
	PSFTURB	WAQC.252 WAQC.251	Yes	Contains the Turbidity Remaining Periodic Sample File (PSF)
	PSFINOR	WAQC.252 WAQC.251	Yes	Contains the Inorganic Remaining Periodic Sample File (PSF)
	PSFORGN	WAQC.252 WAQC.251	Yes	Contains the Organic Remaining Periodic Sample File (PSF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC038 which merges the Various Compliance Files

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PSFBACT	WAQC.252 WAQC.251	Yes	Contains the Bacteriological Remaining Periodic Sample File (PSF)
	PSFALPH	WAQC.252 WAQC.251	Yes	Contains the Gross Alpha Remaining Periodic Sample File (PSF)
	PSFBETA	WAQC.252 WAQC.251	Yes	Contains the Gross Beta Remaining Periodic Sample File (PSF)

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC038 which merges the Various Compliance Files

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	WAQC.327	Yes	Prints the Completion Report
	VIFIFILE	WAQC.223 WAQC.224 WAQC.225	Yes	Contains the Violations File Compliance Input Transaction File
	PWFIFILE	PWSI.223	Yes	Contains the PWF Input Transaction File
	PSFFILE	WAQC.251 WAQC.252	Yes	Contains the New Periodic Sample File (PSF)
	SAFFILE	WAQC.254	Yes	Contains the New Sample Analysis File (SAF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Runs IEFBR14 to uncatalog the Periodic Sample File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	IN	WAQC.251 WAQC.252	Yes	Contains the old Periodic Sample File (PSF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Periodic Sample File using Sort21

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SORTIN	WAQC.251 WAQC.252	Yes	Contains the New Periodic Sample File (PSF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCCOM4

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Periodic Sample File using Sort21

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	SORTOUT	WAQC.251 WAQC.252	Yes	Contains the sorted New Periodic Sample File (PSF)

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: MSIS.WAQCOPRT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCVIFO MSIS.WAQCTRNR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCVIFO MSIS.WAQCTRNR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCVIFO MSIS.WAQCTRNR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRCR MSIS.WAQCVIFO If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNR MSIS.WAQCVIFO B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPSAFT MSIS.TEMPSAFC MSIS.TEMPSAFI MSIS.TEMPSAFA MSIS.TEMPSAFO MSIS.TEMPSAFB If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.SAF MSIS.TEMPSAF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNR MSIS.TEMPSAF MSIS.SAF B. If any of the following data sets were uncataloged and deleted, recatlog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.TEMPSAF MSIS.WAQCPWFI MSIS.WAQCPWFO MSIS.WAQCTRNT MSIS.WAQCTRNI MSIS.WAQCTRNO MSIS.WAQCTRNC MSIS.WAQCTRNA MSIS.WAQCTRNB MSIS.WAQCTRNR MSIS.WAQCPSFT MSIS.WAQCPSFI MSIS.WAQCPSFO MSIS.WAQCPSFC MSIS.WAQCPSFA MSIS.WAQCPSFB If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCTRAN MSIS.WAQCPSF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRNR MSIS.WAQCPSF

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 6	
ntinued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE # — **DESCRIPTION**

Step 7

(1) Check the following data sets to see if they were kept:

MSIS.PSF
MSIS.WAQCPSF

If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:

A. Uncatalog and scratch any of the following data sets that are catalogued.

None

B. If any of the following data sets were uncatalogued and deleted, recatalogue those data sets using the proper volume serial numbers.

None

C. Restart the job from step 1.

(2) A. Uncatalog and scratch any of the following data sets that were catalogued:

MSIS.WAQCPSF
MSIS.WAQCTRAN
MSIS.WAQCPSF
MSIS.PSF

B. If any of the following data sets were uncatalogued and deleted, recatalog those data sets using the proper volume serial numbers.

None

C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCCOM4

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.WAQCPSF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTRAN MSIS.WAQCPSF MSIS.SAF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: WAQCLBTC

Function: This job streams creates the Laboratory Table (LBT).

Step 1: This steps sorts the input transactions for Laboratory Table Creation into the proper sequence for processing.

Step 2: This step executes program WAQC210 which creates the Laboratory Table (LBT).

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCLBTC

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Creates the Laboratory Table (LBT)	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	WAQC.315	Sample Analysis File Purge Report	---	---	STD	2	---	---	---	Requestor
	WAQC.316	Sample Analysis File Purge Statistics Report	1	---	STD	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.313	Data Entry Report	---	---	STD	3	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Input Transactions for Laboratory Table Creation

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	WAQC.101 WAQC.102	Yes*	Contains the Laboratory Table Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input Transactions for Laboratory Table Creation

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.201 WAQC.202	Yes	Contains the sorted Laboratory Table Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC210 which creates the Laboratory Table (LBT)	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	CVTFILE	MSIS.206	Yes	Contains the Code Value Table data
	LBTPROC	WAQC.200	Yes*	Contains the 'PROC' Processing Option Record which contains a Processing Date
	LBTFILE	WAQC.201 WAQC.202	Yes	Contains the Laboratory Table Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC210 which creates the Laboratory Table (LBT)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	WAQC.300	Yes	Prints the Laboratory Table Report
	SEFFILE	MSIS.207 MSIS.208	Optional	Prints the Standard Error File if any errors are found on the Input Records
	LBTFILE	WAQC.250	Yes	Contains the Laboratory File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains the Data Element Table data
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table data
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCLBTC

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	ERROR	MSIS.215	Optional	Contains the Optional Error File
	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCLBTC

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCTABL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCTABL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCLBTC

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.LBSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.LBT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: WAQCPSFU

Function: This job stream updates the Periodic Sample File (PSF).

Step 1: This step executes program WAQC010 which updates the Periodic Sample File (PSF).

Step 2: This step executes program MSTS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 3: This step sorts the processing options into the proper sequence for processing.

Step 4: This step executes program WAQC011 which produces the PSF Input Transaction Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCPSFU

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Update the Periodic Sample File (PSF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	WAQC.301	Update Report Periodic Sample File	---	---	STD	1	---	---	---	Requestor
	MSIS.300	Standard Update Statistics Report	---	---	STD	---	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
2	MSIS.313	Data Entry Report	---	---	STD	2	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	WAQC.303	PSF Input Transaction Report	---	---	STD	4	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	4	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAOCPSFU

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Update the Periodic Sample File (PSF)

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.311	Standard Sort Sequence Report	1	---	STD	4	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC010 which updates the Periodic Sample File (PSF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	CVTFILE	MSIS.206	Yes	Contains the Code Value Table data
	PWTFILE	PWSI.201	Yes	Contains the Public Water Table data
	LBTFILE	WAQC.250	Yes	Contains the Laboratory Table data
	PSFFILE	WAQC.251 WAQC.252	Yes	Contains the Periodic Sample File data
	PROCFILE	WAQC.103	Yes*	Contains the 'PROC' Processing Options Record which contains the Processing Date, and Error File Code and a Data Element Print Code
	PSFIFILE	WAQC.105 WAQC.106 WAQC.400 WAQC.403 WAQC.107 WAQC.404 WAQC.405 WAQC.108 WAQC.406 WAQC.407	Yes	Contains Sample Deletion Transactions, Chemical or Radiological Analysis Input Transactions, Bacteriological or Turbidity Analysis Input Transactions, Bacteriological or Turbidity Summary Analysis Input Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC010 which updates the Periodic Sample File (PSF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PSFOFILE	WAQC.251 WAQC.252	Yes	Contains the Periodic Sample File
	PSFTRANS	WAQC.208	Yes	Contains the PSF Transaction File
	SEFFILE	MSIS.207 MSIS.208	Yes	Contains the Standard Error File
	PRINTFL	MSIS.300 WAQC.301	Yes	Prints the Standard Update Statistics Report and the PSF Update Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	DETFIL	MSIS.201	Yes	Contains the Data Element Table data
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table data
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSISU10 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	WAQC.111 WAQC.104	Yes*	Contains a 'PROC' Processing Option Record with a Processing Date and 'SORT' Processing Option Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Processing Options	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	WAQC.214 WAQC.204	Yes	Contains the sorted Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC011 which produces the PSF Input Transaction Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	DETFIL	MSIS.201	Yes	Contains the Data Element Table data
	PSFTRANS	WAQC.208	Yes	Contains the PSF Transaction File
	PROCFIL	WAQC.214 WAQC.204	Yes	Contains the 'PROC' and 'SORT' Processing Option Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCPSFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC011 which produces the PSF Input Transaction Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINTER	WAQC.302 WAQC.303 MSIS.309	Yes	Prints the PSP Transaction Sort Sequence Report and the PSP Input Transaction Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCPSFU

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: MSIS.PSF DDNAME=PSFFILE If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.PSF DDNAME=PSFOFILE MSIS.WAQCPSFI MSIS.PSSEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PSF DDNAME=PSFFILE C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.PSF DDNAME=PSFOFILE MSIS.WAQCPSFI MSIS.PSSEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.PSF DDNAME=PSFFILE C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCPSFU

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept:
	MSIS.PSSEF
	If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:
	A. Uncatalog and scratch any of the following data sets that are cataloged.
	None
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 2.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged:
	MSIS.PSF DDNAME=PSFOFILE MSIS.WAQCPSFI
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers:
	MSIS.PSF DDNAME=PSFFILE
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCPSFU

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSF DDNAME=PSFOFILE MSIS.WAQCPSFI MSIS.WAQCPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PSF DDNAME=PSFFILE C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCPSFU

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.WAQCPSFI MSIS.WAQCPRC1 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.PSF DDNAME=PSFOFILE MSIS.WAQCPSFI MSIS.WAQCPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.PSF DDNAME=PSFFILE C. Restart the job from step 1.

PROC Name: WAQCSAFD

Function: This job stream updates the Sample Analysis File (SAF).

Step 1: This step sorts the Sample Deletion Transactions into the proper sequence for processing.

Step 2: This step executes program WAQC020 which updates the Sample Analysis File (SAF) by deleting specified records.

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **WAQCSAFD**

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Updates the Sample Analysis File (SAF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	**NAME**								
1	---	---	---	---	---	1	---	---	---	---
2	**WAQC.304**	**Sample Analysis File Deletion Report**	---	---	**STD**	2	---	---	---	**Requestor**
3	**MSIS.313**	**Data Entry Report**	1	---	**STD**	3	---	---	---	**Requestor**

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAPD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sample Deletion Transactions using Sort14

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	WAQC.110	Yes*	Contains Sample Deletion Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sample Deletion Transactions using Sort14

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.110	Yes	Contains sorted Sample Deletion Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC020 which updates the Sample Analysis File (SAF) by deleting specified records

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SAFDEL	WAQC.110	Yes	Contains sorted Sample Deletion Transactions
	SAFIN	WAQC.254	Yes	Contains the Sample Analysis File
	PROCOP	WAQC.110	Yes*	Contains sorted Sample Deletion Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC020 which updates the Sample Analysis File (SAF) by deleting specified records

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	WAQC.304	Yes	Prints the Sample Analysis File Deletion Report
		MSIS.300 MSIS.309	Yes	Prints the Standard Update Statistics Report
	SAFOUT	WAQC.254	Yes	Contains the updated Sample Analysis File
	SEFOUT	MSIS.207 MSIS.208	Yes	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains the Sample Analysis Data Element Table
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFD

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCSAFT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCSAFT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFD

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.WAQCSAFT MSIS.SAF DDNAME=SAFIN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SAF DDNAME=SAFOUT MSIS.SASEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.SAF DDNAME=SAFIN C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.SAF DDNAME=SAFOUT MSIS.SASEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.SAF DDNAME=SAFIN C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFD

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.SASEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SAF DDNAME=SAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SAF DDNAME=SAFIN C. Restart the job from step 1.

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PROC Name: WAQCSAFP

Function: This job stream purges records from the Sample Analysis File (SAF).

Step 1: This step executes program WAQC220 which purges records from the Sample Analysis File (SAF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSAFP

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Purges Records from the Sample Analysis File (SAF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
	WAQC.315	Sample Analysis File Purge Report	---	---	STD	1	---	---	---	Requestor
	WAQC.316	Sample Analysis File Purge Statistics Report	---	---	STD	1	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAPP

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC220 which purges records from the Sample Analysis File (SAF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PROCFIL	WAQC.113	Yes*	Contains the Processing Date and other criteria
	SAFIN	WAQC.254	Yes*	Contains the Sample Analaysis Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFP

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC220 which purges records from the Sample Analysis File (SAF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PRTFILE	WAQC.315	Yes	Prints the Sample Analysis File Purge Report
		WAQC.316 MSIS.309	Yes	Prints the Sample Analysis File Purge Statistics Report
	SAFOUT	WAQC.254	Yes	Contains Sample Analysis Records
	SAFPURGE	WAQC.254	Yes	Contains Purged Sample Analysis Records

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAOCSAPP

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: MSIS.SAF DDNAME=SAFIN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SAF DDNAME=SAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SAF DDNAME=SAFIN C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.SAF DDNAME=SAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.SAF DDNAME=SAFIN C. Restart the job from step 1.

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PROC Name: WAQCSAFS

Function: This job stream selects records from the Sample Analysis File (SAF) to produce the Summary of Chemical, Radiological and Turbidity Analysis Reports.

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program WAQC100 which selects records from the Sample Analysis File (SAF).

Step 3: This step sorts the SORT Processing Options into the proper sequence for processing.

Step 4: This step executes program WAQC110 which produces the Summary of Chemical Analysis Report.

Step 5: This step sorts the SORT Processing Options into the proper sequence for processing.

Step 6: This step executes program WAQC111 which produces the Summary of Radiological Analysis Report.

Step 7: This step sorts the SORT Processing Options into the proper sequence for processing.

Step 8: This step executes program WAQC112 which produces the Summary of Bacteriological Analysis Report.

Step 9: This step sorts the SORT Processing Options into the proper sequence for processing.

Step 10: This step executes program WAQC113 which produces the Summary of Turbidity Analysis Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSAFS

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Selects Records From the SAF to Produce the Summary of Chemical, Radiological and Turbidity Analysis Reports

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor
	MSIS.312	Standard Selection Statistics Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	WAQC.321	Summary of Chemical Analysis Report	---	---	STD	4	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSAFS

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Selects Records From the SAF to Produce the Summary of Chemical, Radiological and Turbidity Analysis Reports

STEP	**REPORT(S) PRODUCED**		**EST.# OF PAGES**	**#OF PARTS AND/OR FORM#**	**CARRIAGE TAPE**	**RESTART PROCEDURE**	**DELOCATE**	**BURST**	**TRIM**	**SEND OUTPUT TO**
	EXHIBIT #	**NAME**								
5	---	---	---	---	---	5	---	---	---	---
6	WAQC.322	Summary of Radiological Analysis Report	---	---	STD	6	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	WAQC.323	Summary of Bacteriological Analysis Report	---	---	STD	8	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSAFS

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Selects Records From the SAF to Produce the Summary of Chemical, Radiological and Turbidity Analysis Reports	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---
10	WAQC.324	Summary of Turbidity Analysis Report	---	---	STD	10	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort 02

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	WAQC.122	Yes*	Identifies fields by which output is sorted
	(SEL1)	WAQC.116	Yes*	Identifies fields to be selected
	(SEL2)	WAQC.117	Yes*	Supplies relational operands which are applied to the selected fields.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort 02

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.122 WAQC.116 WAQC.117	Yes	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC100 which selects Records from the Sample Analysis File (SAF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	DETSAFIL	MSIS.201		Contains the Sample Analysis Data Element Table
	CVTFIL	MSIS.206		Contains the MSIS Code Value Table
	PWTFIL	PWSI.201 PWSI.234		Contains Public Water Records
	PROCOP	WAQC.122 WAQC.116 WAQC.117		Contains the sorted Sort Processing Options
	SAFIFIL	WAQC.254		Contains Sample Analysis Records

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC100 which selects Records from the Sample Analysis File (SAF)	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.312 MSIS.309		Prints the Standard Selection Statistics Report
	CHEMFIL	WAQC.228 WAQC.234		Contains Chemical Analysis Select Records
	BACTFIL	WAQC.228 WAQC.235		Contains Bacteriological Analysis Select Records
	TURBFIL	WAQC.228 WAQC.235		Contains Turbidity Analysis Select Records
	RADIFIL	WAQC.228 WAQC.235		Contains Radiological Analysis Select Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAPS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **WAQCSAPS**

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQC110 which produces the Summary of Chemical Analysis Report	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	DETSAFIL	MSIS.201	Yes	Contains the Sample Analysis Data Element Table
	SORTFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	SAFIFIL	WAQC.228 WAQC.234	Yes	Contains the Chemical/Radiological Analysis Select Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC110 which produces the Summary of Chemical Analysis Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINTER	WAQC.321	Yes	Prints the Summary of Chemical Analysis Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN	WAQC.104	Optional*	Identifies fields by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **WAQCSAFS**

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 06	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes WAQCIII which produces the Summary of Radiological Analysis Report	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETSAFIL	MSIS.201	Yes	Contains the Sample Analysis Data Element Table
	SORTFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	SAFIFIL	WAQC.228 WAQC.234	Yes	Contains Chemical/Radiological Analysis Select Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAPS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC111 which produces the Summary of Radiological Analysis Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	WAQC.322	Yes	Prints the Summary of Radiological Analysis Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 05

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN (SORT)	WAQC.104	Optional*	Identifies fields by which output is sorted

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the 'SORT' Processing Options using Sort 06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC112 which produces the Summary of Bacteriological Analysis Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	DETSAFIL	MSIS.201	Yes	Contains the Sample Analysis Data Element Table
	SORTFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	SAFIFIL	WAQC.228 WAQC.235	Yes	Contains Bacteriological Select Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC112 which produces the Summary of Bacteriological Analysis Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINTER	WAQC.323	Yes	Prints the Summary of Bacteriological Analysis Report
		MSIS.309 MSIS.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAOCSAPS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the 'SORT' Processing Options Using Sort 06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN (SORT)	WAQC.104	Optional*	Identifies field by which output is sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the 'SORT' Processing Options using Sort 06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT	WAQC.104	Optional	Contains sorted SORT entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAPS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC113 which produces the Summary of Turbidity Analysis Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	DETSAPIL	MSIS.201	Yes	Contains the Sample Analysis Data Elements Table
	SORTFIL	WAQC.104	Optional	Contains the sorted Sort Processing Options
	SAPIFIL	WAQC.228 WAQC.235	Yes	Contains the Turbidity Analysis Select Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSAFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes WAQC113 which produces the Summary of Turbidity Analysis Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRINTER	WAQC.324	Yes	Prints the Summary of Turbidity Analysis Report
		WAQC.309 WAQC.311	Yes	Prints the Standard Sort Sequence Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC2 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCPRC2 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC2 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCCHEM MSIS.WAQCRADI MSIS.WAQCBACT MSIS.WAQCTURB B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCCHEM MSIS.WAQCRADI MSIS.WAQCBACT MSIS.WAQCTRUB B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCCHEM MSIS.WAQCRADI MSIS.WAQCBACT MSIS.WAQCTURB MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC3 MSIS.WAQCCHEM If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCRADI MSIS.WAQCPRC3 MSIS.WAQCBACT MSIS.WAQCCHEM MSIS.WAQCTURB B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept:
	None
	If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:
	A. Uncatalog and scratch any of the following data sets that are cataloged:
	MSIS.WAQCPRC3
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 5.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged:
	MSIS.WAQCRADI MSIS.WAQCBACT MSIS.WAQCTURB MSIS.WAQCPRC3
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC3 MSIS.WAQCRADI If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCBACT MSIS.WAQCPRC3 MSIS.WAQCTURB MSIS.WAQCRADI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCBACT MSIS.WAQCTURB MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC3 MSIS.WAQCBACT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTURB MSIS.WAQCPRC3 MSIS.WAQCBACT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.WAQCTURB MSIS.WAQCPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSAFS

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC3 MSIS.WAQCTURB If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCPRC3 MSIS.WAQCTURB B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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PROC Name: WAQCSCHD

Function: This job stream builds the Schedule Files and prints the various schedule reports.

Step 1: This step sorts the Scheduling Output Options into the proper sequence for processing.

Step 2: This step executes program WAQC130 which builds the Schedule Files.

Step 3: This step sorts the Contaminant Schedule File into the proper sequence for processing by WAQC140.

Step 4: This step executes program WAQC140 which produces the Chemical or Radiological Scheduling Report.

Step 5: This step sorts the Contaminant Schedule File into the proper sequence for processing by WAQC150, WAQC170 and WAQC180.

Step 6: This step executes program WAQC150 which produces the Chemical or Radiological Input Form.

Step 7: This step executes program WAQC170 which produces the Bacteriological or Turbidity Analysis Form.

Step 8: This step executes program WAQC180 which produces the Bacteriological or Turbidity Summary Input Forms.

Step 9: This step sorts the Operations Mailing Label File into the proper sequence for processing.

Step 10: This step executes program WAQC200 which produces the Mailing Labels and Monthly Operation Report Form.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSCHD

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Build Schedule Files and Print Various Schedule Reports	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	WAQC.319	Chemical/ Radiological Scheduling Report	---	---	STD	4	---	---	---	Requestor
5	---	---	---	---	---	5	---	---	---	---
6	WAQC.400	Chemical or Radiological Analysis Report Form	---	---	STD	6	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCSCHD

RUN FREQUENCY: Upon Request

JOB DUE OUT

JOB DESCRIPTION: Build Schedule Files and Print Various Schedule Reports

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
7	WAQC.401	Bacteriological or Turbidity Analysis Input Forms	---	---	STD	7	---	---	---	Requestor
8	WAQC.402	Bacteriological or Turbidity Summary Analysis Input Forms	---	---	---	8	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---
10	WAQC.329	Mailing Labels	---	---	---	10	---	---	---	Requestor
	WAQC.330	Monthly Operations Report Update Forms	---	---	---	---	---	---	---	Requestor

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Scheduling Output Options using Sort10

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	WAQC.124	Yes*	Contains scheduling Ouput Option Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts Scheduling Output Options Using Sort10

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.245	Yes	Contains sorted scheduling output option records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes Program WAQC130 which builds the Scheduling Files

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	RGF	REGS.250 REGS.251 REGS.252 REGS.253 REGS.255 REGS.256 REGS.257	Yes	Contains Data from the Regulations File
	CVT	MSIS.206	Yes	Contains Data from the Code Value Table
	PWF	PWSI.200	Yes	Contains Data from the Public Water File
	PROC	WAQC.114	Yes*	Contains Processing date, a rerun code, and monthly operations report options
	SCHEDPOPT	WAQC.245	Yes	Contains sorted Scheduling Output Option Records
	CSFIN	WAQC.257	Optional	Contains data from the Compliance Status File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **WAQCSCHD**

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes program WAQC.130 which builds the Scheduling Files

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	**PRTFILE**	MSIS.309	Optional	Prints the Standard Error Report if Errors are found in Input Records
	CSFOUT	WAQC.257	Yes	Contains the Updated Compliance Status File
	SAFISCHD	WAQC.219 WAQC.220	Yes	Contains the Contaminant Schedule File
	SAFILBL	WAQC.242 WAQC.243	Yes	Contains the Operations Report/Mailing Label File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts Contaminant Schedule File using Sort15

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	WAQC.219 WAQC.220	Yes	Contains Contaminant Schedule Records to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts Contaminant Schedule File using Sort15

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	WAQC.219 WAQC.220	Yes	Contains sorted Contaminant Schedule Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC140 which produces the Chemical or Radiological Scheduling Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SCHDFILE	WAQC.219 WAQC.220	Yes	Contains Chemical and/or Radiological Contaminant Scheduling Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC140 which produces the Chemical or Radiological Scheduling Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRNTFILE	WAQC.319	Yes	Prints the Chemical/Radiological Scheduling Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts Contaminant Schedule File using Sort23

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN	WAQC.219	Yes	Contains Contaminant Schedule File to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Contaminant Schedule File using Sort23	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	WAQC.219 WAQC.220	Yes	Contains sorted Contaminant Schedule File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes program WAQC150 which produces the Chemical or Radiological Input Form	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	RESTFILE	WAQC.125	Optional*	Contains a restart number
	CONTFILE	WAQC.219	Yes	Contains Chemical and/or Radiological Contaminant
		WAQC.220	Yes	Scheduling records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC150 which produces the Chemical or Radiological Input Form

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTOUT	WAQC.400	Yes	Prints the Chemical and/or Radiological Analysis Input Forms

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Contaminant Schedule File using Sort16	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN	WAQC.219 WAQC.220	Yes	Contains Contaminant Schedule File to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts Contaminant Schedule File using Sort16

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	WAQC.219 WAQC.220	Yes	Contains sorted Contaminant Schedule File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes program WAQC170 which produces the Bacteriological or Turbidity Analysis Form

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	RESTFILE	WAQC.125	Optional*	Contains a restart number
	CONTFILE	WAQC.219 WAQC.220	Yes	Contains Bacteriological and/or Turbidity Contaminant Scheduling Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **WAQCSCHD**

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC170 which produces the Bacteriological or Turbidity Analysis Form

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINTOUT	WAQC.401	Yes	Prints the Bacteriological and/or Turbidity Analysis Forms

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC180 which produces the Bacteriological or Turbidity Summary Input Forms

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	RESTFILE	WAQC.125	Optional*	Contains a restart number
	CONTFILE	WAQC.219 WAQC.220	Yes	Contains Bacteriological and/or Turbidity Scheduling Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQC180 which produces the Bacteriological or Turbidity Summary Input Forms

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	PRINTOUT	WAQC.402	Yes	Prints the Bacteriological and/or Turbidity Summary Input Forms

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Operations Report/Mailing Label File using Sort17	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	SORTIN	WAQC.242 WAQC.243	Yes	Contains Operations Report/Mailing Label File to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Operations Report/Mailing Label File using Sort17

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	SORTOUT	WAQC.242 WAQC.243	Yes	Contains Sorted Operations Report/Mailing Label File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program WAQCL00 which produces the Mailing Labels and Monthly Operations Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	LABELIN	WAQC.242 WAQC.243	Yes	Contains Operations Report/Mailing Label Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCSCHD

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes Program WAQC200 which produces the Mailing Labels and Monthly Operations Report	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	PRINTOUT	WAQC.330	Yes	Prints the Monthly Operations Report
	LABELOUT	WAQC.329	Yes	Prints the Mailing Labels

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCSCHI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCSCHI B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.WAQCSCHI If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.CSF(+1) MSIS.WAQCSCHD MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.CSF(+1) MSIS.WAQCSCHD MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept:
	MSIS.WAQCSCHD
	If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions:
	A. Uncatalog and scratch any of the following data sets that are cataloged:
	MSIS.TEMPSCHD
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 3.
	(2) A. Uncatalog and scratch any of the following data sets that were cataloged:
	MSIS.CSF(+1) MSIS.WAQCLBL MSIS.WAQCSCHD MSIS.TEMPSCHD
	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers.
	None
	C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL MSIS.WAQCSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.WAQCSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.TEMPSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.WAQCSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.TEMPSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: MSIS.TEMPSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.WAQCLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.WAQCLBL If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) MSIS.TEMPLBL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCSCHD

RESTART PROCEDURE #	DESCRIPTION
Step 11	(1) Check the following data sets to see if they were kept: MSIS.TEMPLBL If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 11. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.CSF(+1) B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: WAQCVIFS

Function: This job stream selects records from the Violations File (VIF).

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program WAQC125 which selects records from the Violations File (VIF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCVIFS

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Select Records from the Violations File (VIF)	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	WAQC.320	Compliance Summary Report	---	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.312	Standard Selection Statistics Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFS

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 02	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	WAQC.111	Yes	Contains Processing Date
	(SEL1)	WAQC.116	Yes	Identifies fields to be selected
	(SEL2)	WAQC.117	Yes	Supplies relational operands which are applied to the selected fields

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Sort Processing Options using Sort 02

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.111	Yes	Contains sorted PROC entries

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes Program WAQC.125, selects records from the Violations File (VIF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	DETVIFIL	MSIS.241	Yes	Contains the Violations Data Entry Table
	PWTFILE	PWSI.201 PWSI.234	Yes	Contains Public Water Records
	PROCOP	WAQC.111	Yes	Contains the sorted Sort Processing Options.
	VIFFIL	WAQC.255	Yes	Contains the Violations Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFS

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes Program WAQC.125, selects records from the Violations File (VIF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	WAQC.320	Yes	Prints the Compliance Summary Report
		MSIS.312 MSIS.309	Yes	Prints the Standard Selection Statistics Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFS

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCPRC4 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCPRCY B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIPS

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.WAQCPRC4 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: WAQCVIFU

Function: This job stream updates the Violations File (VIF).

Step 1: This step sorts the manual input transactions for the Violations File into the proper sequence for processing.

Step 2: This step executes program WAQC120 which updates the Violations File (VIF).

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 4: This step sorts the Standard History File (SHF) updates into the proper sequence for processing.

Step 5: This step executes program MSIS020 and merges the Standard History File updates with the existing SHF.

Step 6: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB WAQCVIFU

RUN FREQUENCY: Upon Request	JOB DUE OUT	
JOB DESCRIPTION: Updates the Violations File		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.300	Standard Update Statistics Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
3	MSIS.313	Data Entry Report	---	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	MSIS.301	Standard History Report	---	---	STD	5	---	---	---	Requestor
	MSIS.300	Standard Update Statistics	---	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **WAOCVIFU**

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Updates the Violations File		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
6	MSIS.313	Data Entry Report	1	---	STD	6	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Manual Input Transactions for the Violations File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	WAQC.119 WAQC.120	Yes*	Contains the VIF Manual Input Records to be sorted.

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIPU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the Manual Input Transactions for the Violations File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	WAQC.223 WAQC.224 WAQC.225	Yes	Contains the sorted VIF Manual Input Records

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC120 which updates the Violations File (VIF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	LBTIN	WAQC.250 WAQC.256	Yes	Contains the Laboratory Table data
	CVTIN	MSIS.206	Yes	Contains the Code Value Table data
	PWTIN	PWSI.201 PWSI.234	Yes	Contains the Public Water Table data
	PROCOP	WAQC.118	Yes*	Contains the 'PROC' Processing Option Record which contains the current date. Standard Error File and Standard History File Options
	TRANMANL	WAQC.119 WAQC.120	Yes	Contains the VIF Manual Input Transaction File
	TRANAUTO	WAQC.119 WAQC.120	Yes	Contains the VIF Compliance Input Transaction File
	VIFIN	WAQC.255	Yes	Contains the Violations File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes WAQC120 which updates the Violations File (VIF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	VIFOUT	WAQC.255	Yes	Contains the updated Violations File
	SHFOUT	MSIS.202 MSIS.200	Yes	Contains the Standard History File
	SEFOUT	MSIS.207 MSIS.208	Optional	Contains the Standard Error File if errors are found in the input records
	PRINTER	MSIS.300 MSIS.309 MSIS.310	Yes	Prints the Standard Update Statistics Report and the Standard Warning Report

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains the Data Element Table data
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table data
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Standard History File (SHF) using Sort 01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	MSIS.202 MSIS.200	Yes	Contains the new Update Transaction File to be sorted

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Standard History File (SHF) using Sort 01

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	MSIS.200 MSIS.202	Yes	Contains the sorted new Update Transaction File

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS020 and merges the Standard History File updates with the existing SHF

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	DETFIL DETFIL2 DETFIL3 DETFIL4	MSIS.201	Yes	Contain the Data Element Tables data
	SHFXACT	MSIS.200 MSIS.202	Yes	Contains the new Update Transaction File
	SHFIN	MSIS.200	Yes	Contains the Standard History File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes MSIS020 and merges the Standard History File updates with the existing SHF

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SHFOUT	MSIS.202	Yes	Contains the Updated Standard History File
	SEFFIL	MSIS.207 MSIS.208	Optional	Contains the Standard Error File if errors are found in the input transactions
	PRINTER	MSIS.301 MSIS.300	Yes	Prints the Standard History Report and the Standard Update Statistics Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETFIL	MSIS.201	Yes	Contains the Data Element Table data
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table data
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File data

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job WAQCVIFU

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.WAQCVIPT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.WAQCVIPT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.VIF DDNAME=VIFIN MSIS.WAQCVIFT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VIF DDNAME=VIFOUT MSIS.WAQCSHF MSIS.VISEF B If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VIF DDNAME=VIFIN C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. MSIS.VIF DDNAME=VIFOUT MSIS.WAQCSHF MSIS.VISEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VIF DDNAME=VIFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.VISEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VIF DDNAME=VIFOUT MSIS.WAQCSHF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.VIF DDNAME=VIFIN C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.WAQCSHF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPVISH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VIF DDNAME=VIFOUT MSIS.TEMPVISH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VIF DDNAME=VIFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPVISH MSIS.SHF DDNAME=SHFIN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SHF DDNAME=SHFOUT MSIS.VISEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SHF DDNAME=SHFIN C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VIF DDNAME=VIFOUT MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VIF DDNAME=VIFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB WAQCVIFU

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.VISEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VIF DDNAME=VIFOUT MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.VIF DDNAME=VIFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

Model State Information System
Training Program

Volume IX

Part II

OPERATIONS MANUAL

Prepared for the

U. S. Environmental Protection Agency
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Task Assignment OWS-77-01

by the

SouthWestern Ohio Regional Computer Center
Cincinnati, Ohio

July, 1977

WAQC010 - Periodic Sample File (PSF) Data Entry & Updates

a. Function

This program edits the sample and deletion transactions data and updates the Periodic Sample File (PSF) accordingly. The PSF contains the original sample data records to be used later in determining compliance.

b. Inputs:

Sample Deletion Transactions (WAQC.105)

Chemical or Radiological Analysis Transactions (WAQC.106, 400)

Bacteriological or Turbidity Analysis Transactions (WAQC.107, 401)

Bacteriological or Turbidity Summary Analysis Transactions (WAQC.108, 402)

Code Value Table (CVT)

Laboratory Table (LBT)

Public Water Table (PWT)

Periodic Sample File (PSF)

c. Processing Options:

PROC (WAQC.103)

d. Outputs:

Periodic Sample File (PSF)

Standard Error File (SEF)

PSF Transaction File

Standard Update Statistics Report (MSIS.300, 309)

PSF Update Report (WAQC.301)

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e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______________________ Date ______________ Page _____ of _____

Procedure ______________________ Drawn By ______________

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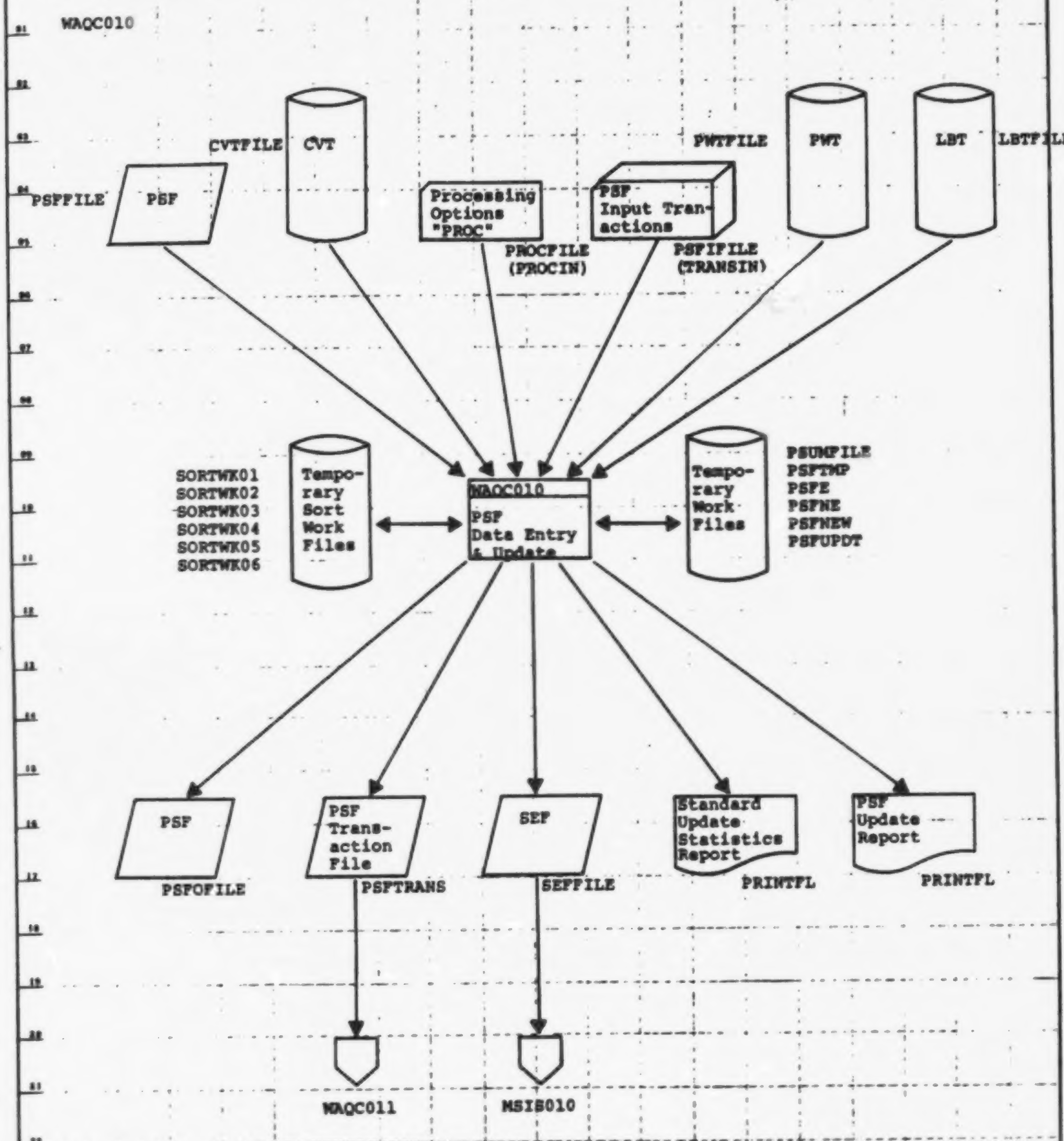
WAQC010
PSFFILE
PSF
CVTFILE
CVT
Processing Options "PROC"
PROCFILE (PROCIN)
PWTFILE
PSF Input Tranactions
PSFIFILE (TRANSIN)
PWT
LBT
LBTFILE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC010
PSF Data Entry & Update
Temporary Work Files
PSUMFILE
PSFTMP
PSFE
PSFNE
PSFNEW
PSFUPDT
PSF
PSFOFILE
PSF Transaction File
PSFTRANS
SEF
SEFFILE
Standard Update Statistics Report
PRINTFL
PSF Update Report
PRINTFL
WAQC011
MSIS010

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f. WAQC010 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO PROC CARD SUPPLIED
REMEDIAL ACTION: obtain PROC card for data entry and rerun job.

MESSAGE: ERROR - INVALID DATE ON PROC CARD
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - PSFI-PROC-OUTPUT NOT EQUAL TO Y OR N
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - PSFI-PROC-FIELD SELECT NOT Y OR N
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: mount CVT file and rerun job.

WAQC011 - Periodic Sample File (PSF) Transaction Report

a. Function

This program produces the Periodic Sample File (PSF) Transaction Report sorted in a user-defined sequence.

b. Inputs:

Data Element Table (DET)

Periodic Sample File (PSF) Transaction File

c. Processing Options:

PROC (WAQC.103)

SORT (WAQC.104)

d. Outputs:

Standard Sort Sequence Report (WAQC.309,311)

PSF Input Transaction Report (WAQC.303)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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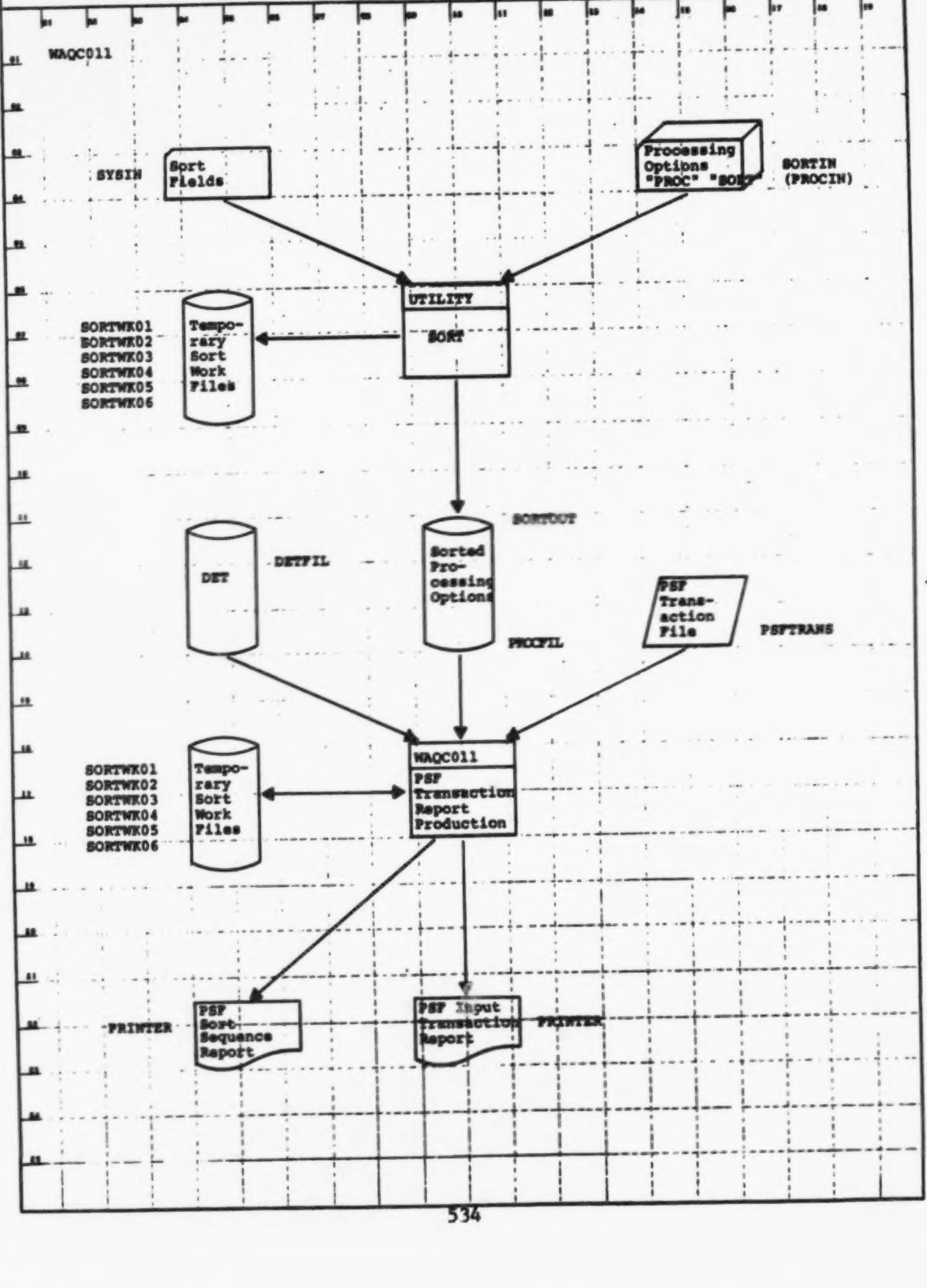
WAQC011
SYSIN
Sort Fields
Processing Options "PROC" "SORT"
SORTIN (PROCIN)
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
SORTOUT
DET
DETFIL
Sorted Processing Options
PROCFIL
PSF Transaction File
PSFTRANS
WAQC011
PSF Transaction Report Production
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
PRINTER
PSF Sort Sequence Report
PSF Input Transaction Report
PRINTER

f. WAOC011 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - NOT DET FILE PROVIDED
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - RECORD TYPE NOT SORT OR PROC
REMEDIAL ACTION: check for keypunch error. If none, return option to data entry for correction and use new option to rerun job.

MESSAGE: ERROR - NO PSPI-PSUM FILE PROVIDED
REMEDIAL ACTION: mount Periodic Sample Transaction file and rerun job.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - SORT OPTIONS RECORD BLANK
REMEDIAL ACTION: return option to data entry for correction and use new SORT option to rerun job.

WAQC020 - Sample Analysis File (SAF) Update

a. Function

This program edits sample deletion transactions and deletes specified records from the Sample Analysis File (SAF). Deleted records are written on the SAF Deletion Report, while the remaining records are written on the updated SAF.

b. Inputs:

Sample Deletion Transactions (WAQC.110)

Sample Analysis File (SAF)

c. Processing Options:

PROC (WAQC.103)

d. Outputs:

Sample Analysis File (SAF)

Standard Error File (SEF)

Sample Analysis File Deletion Report (WAQC.304)

Standard Update Statistics Report (MSIS.300 and 309)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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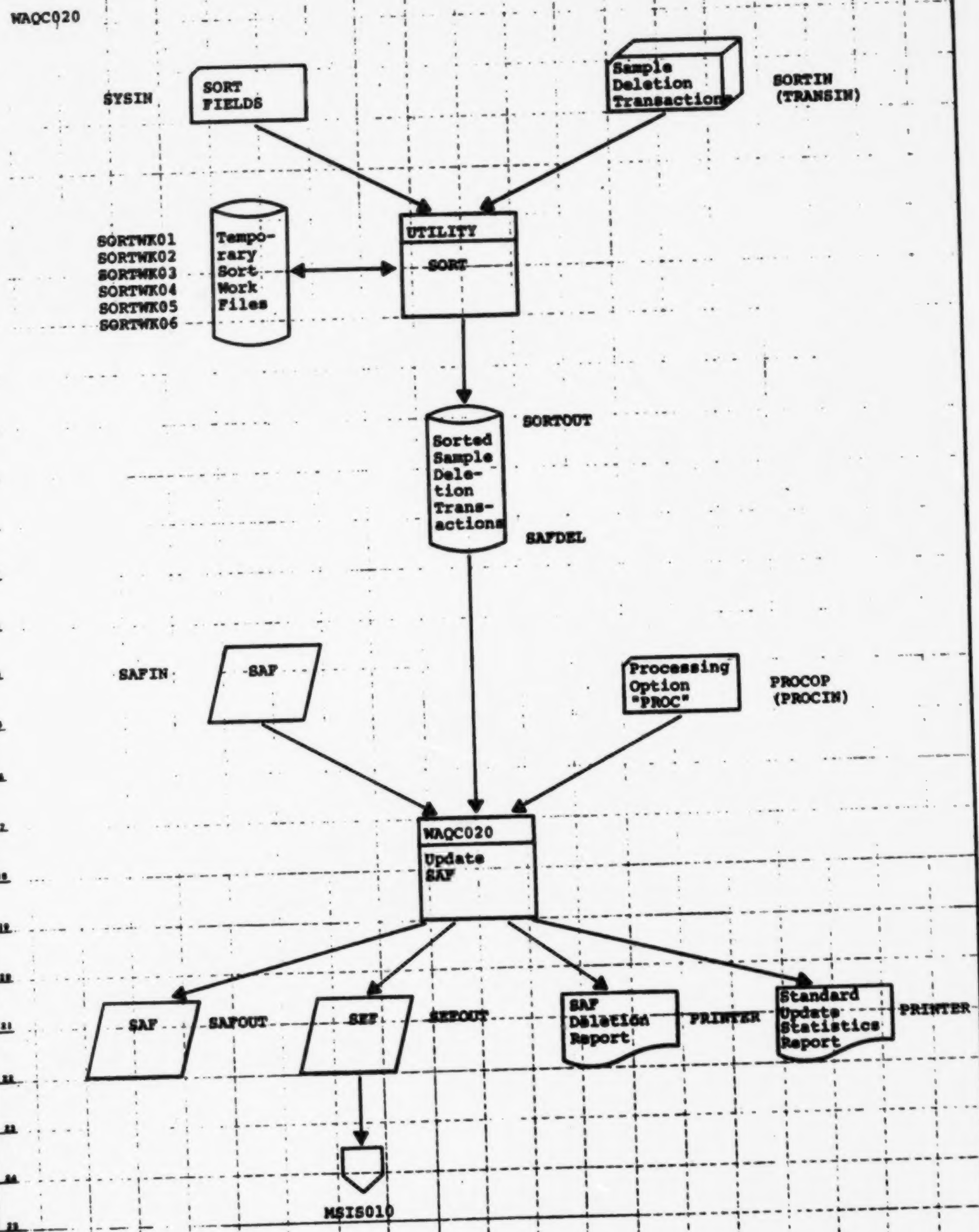
WAQC020
SYSIN
SORT FIELDS
Sample Deletion Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Sample Deletion Transactions
SAFDEL
SAFIN
SAF
Processing Option "PROC"
PROCOP (PROCIN)
WAQC020
Update SAF
SAF
SAFOUT
SEF
SEFOUT
SAF Deletion Report
PRINTER
Standard Update Statistics Report
PRINTER
MSIS010

f. WAQC020 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC records.

MESSAGE: ERROR - CONTAINS INVALID ERROR FILE CODE IN PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - CONTAINS INVALID CATALOG PRINT CODE
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - PROC TYPE NOT PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

WAQC025 - Compliance Files Creation

a. Function

This program will divide the Sample Analysis File (SAF) into six contaminant files: Turbidity, Inorganic Chemical, Organic Chemical, Bacteriological, Gross Alpha, and Gross Beta.

b. Inputs:

PROC (WAQC.139)

d. Outputs:

Turbidity Sample Analysis File (SAF)

Inorganic Chemical SAF

Organic Chemical SAF

Bacteriological SAF

Gross Alpha SAF

Gross Beta SAF

Compliance Date File

Standard Error Report (MSTS.309)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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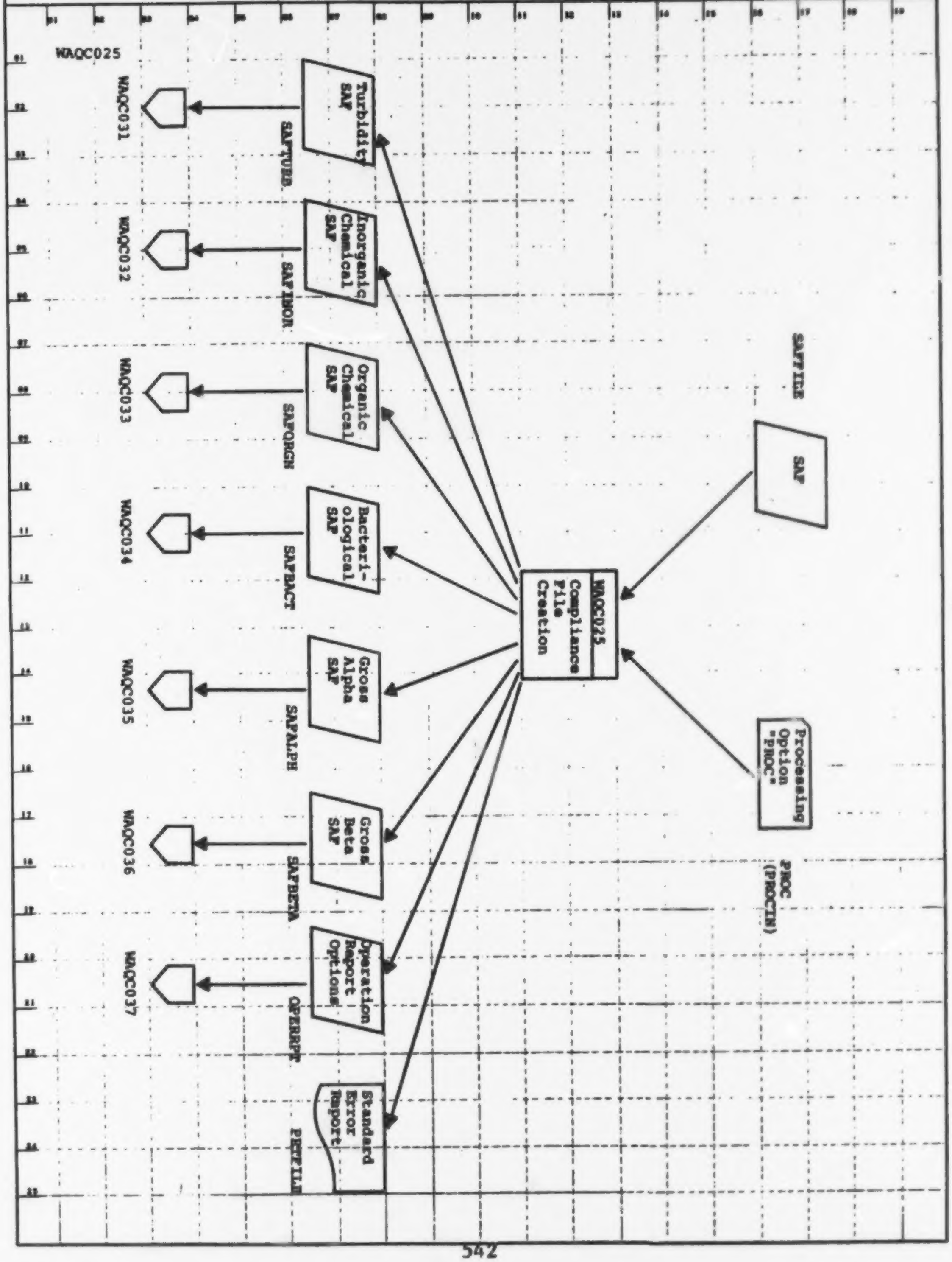
WAQC025
SAFFILE
SAF
Processing Option "PROC"
PROC (PROCIN)
WAQC025 Compliance File Creation
Turbidity SAF
SAFTURB
WAQC031
Inorganic Chemical SAF
SAFINOR
WAQC032
Organic Chemical SAF
SAFORGN
WAQC033
Bacteriological SAF
SAFBACT
WAQC034
Gross Alpha SAF
SAFALPH
WAQC035
Gross Beta SAF
SAFBETA
WAQC036
Operation Report Options
OPERRPT
WAQC037
Standard Error Report
PERFILE

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f. WAQC025 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC.

MESSAGE: NO ERRORS ON PROC - SAF FILES WRITTEN - CONTINUE
REMEDIAL ACTION: None. This means that the job has run successfully.

MESSAGE: ERROR - START DATE BAD ON PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - END DATE BAD ON PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - COMPLIANCE CYCLE INVALID ON PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - LAG TIME ON PROC BAD
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - AIR TEMP INVALID ON PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

MESSAGE: ERROR - UNITS BAD ON PROC
REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

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MESSAGE: ERROR - OPERATION REPORT FIELD INVALID ON PROC

REMEDIAL ACTION: check for keypunch errors. If none, return option to data entry for correction and use new PROC to rerun job.

WAQC031 - Edit for Turbidity Violations

a. Function:

This program will edit the Turbidity records from the Contaminant Sample Analysis File (SAF) and the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and Sampling Violations. MCL violations data is used to build the Turbidity MCL Violations File which is passed to program WAQC051. Sampling violations data is used to build the Turbidity Sampling Violations File which is passed to program WAQC080. Both MCL and sampling violations data are used to build the Turbidity Violations File Update Transactions File which is passed to program WAQC120. WAQC031 also builds the Turbidity Remaining PSF and the Turbidity Updated SAF from the processed sample records.

b. Inputs:

Turbidity Sample Analysis File

Periodic Sample File (PSF)

Public Water File (PWF)

Regulations File (RGF)

c. Processing Options:

None

d. Outputs:

Turbidity Remaining Sample File

Turbidity Updated Sample Analysis File

Turbidity MCL Violations File

Turbidity Sampling Violations File

Turbidity Violations File (VIF) Updated Transactions File

Turbidity Warnings Report (WAQC.326)

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e. I/O Chart

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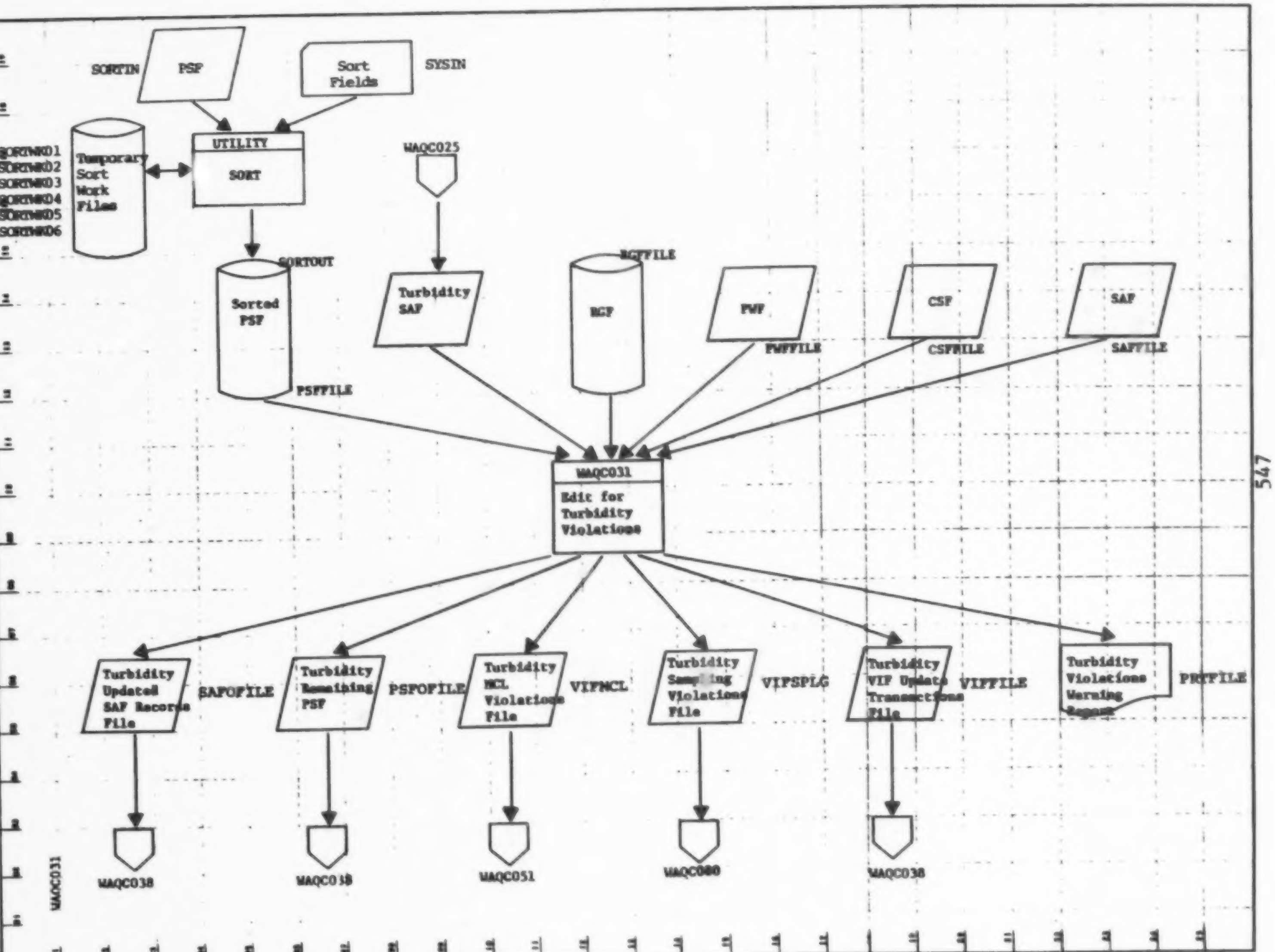
WAQC031
SORTIN
PSF
Sort Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted PSF
PSFFILE
WAQC025
Turbidity SAF
RGF
RGFFILE
PWF
PWFFILE
CSF
CSFFILE
SAF
SAFFILE
WAQC031
Edit for Turbidity Violations
Turbidity Updated SAF Records File
SAFOFILE
Turbidity Remaining PSF
PSFOFILE
Turbidity MCL Violations File
VIFMCL
Turbidity Sampling Violations File
VIFSPLG
Turbidity VIF Update Transactions File
VIFFILE
Turbidity Violations Warning Report
PRTFILE
WAQC038
WAQC038
WAQC051
WAQC080
WAQC038

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f. WAQC031 - Error Messages and Remedial Actions

MESSAGE: NO RECORDS ON SAF FILE
REMEDIAL ACTION: Make sure that the correct file was used for the run. If file is the correct one, there were no Turbidity violations this run.

WAQC032 - Inorganic Chemicals Violations Edit

a. Function

This program edits the Inorganic Chemical records from the Contaminant Sample Analysis File (SAF) and the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and sampling violations. The MCL violations are used to build the Inorganic Chemical MCL Violations File which is passed to WAQC040. The sampling violations are used to produce the Inorganic Chemical Sampling Violations File which is passed to the WAQC060. Both MCL and Sampling Violations are used to produce the Inorganic Chemical Violations File (VIF) Update Transactions File which is passed to WAQC120. This program also builds the Inorganic Chemical Remaining Periodic Sample File and the Inorganic Chemical Updated Sample Analysis File.

b. Inputs:

Inorganic Chemical Sample Analysis File (SAF)

Periodic Sample File (PSF)

Public Water File (PWF)

Compliance Status File (CSF)

Regulations File (RGF)

Code Value Table (CVT)

Laboratory Table (LBT)

c. Processing Options:

None

d. Outputs:

Compliance Status File (CSF)

Inorganic Chemical Remaining Periodic Sample File

Inorganic Chemical Sample Analysis File

Inorganic Chemical MCL Violations File

Inorganic Chemical Sampling Violations File

Inorganic Chemical Violations File

Update Transactions File

Inorganic Chemical Public Water File (PWF)
Update Transactions File

Inorganic Chemical Warnings Report (WAQC.326)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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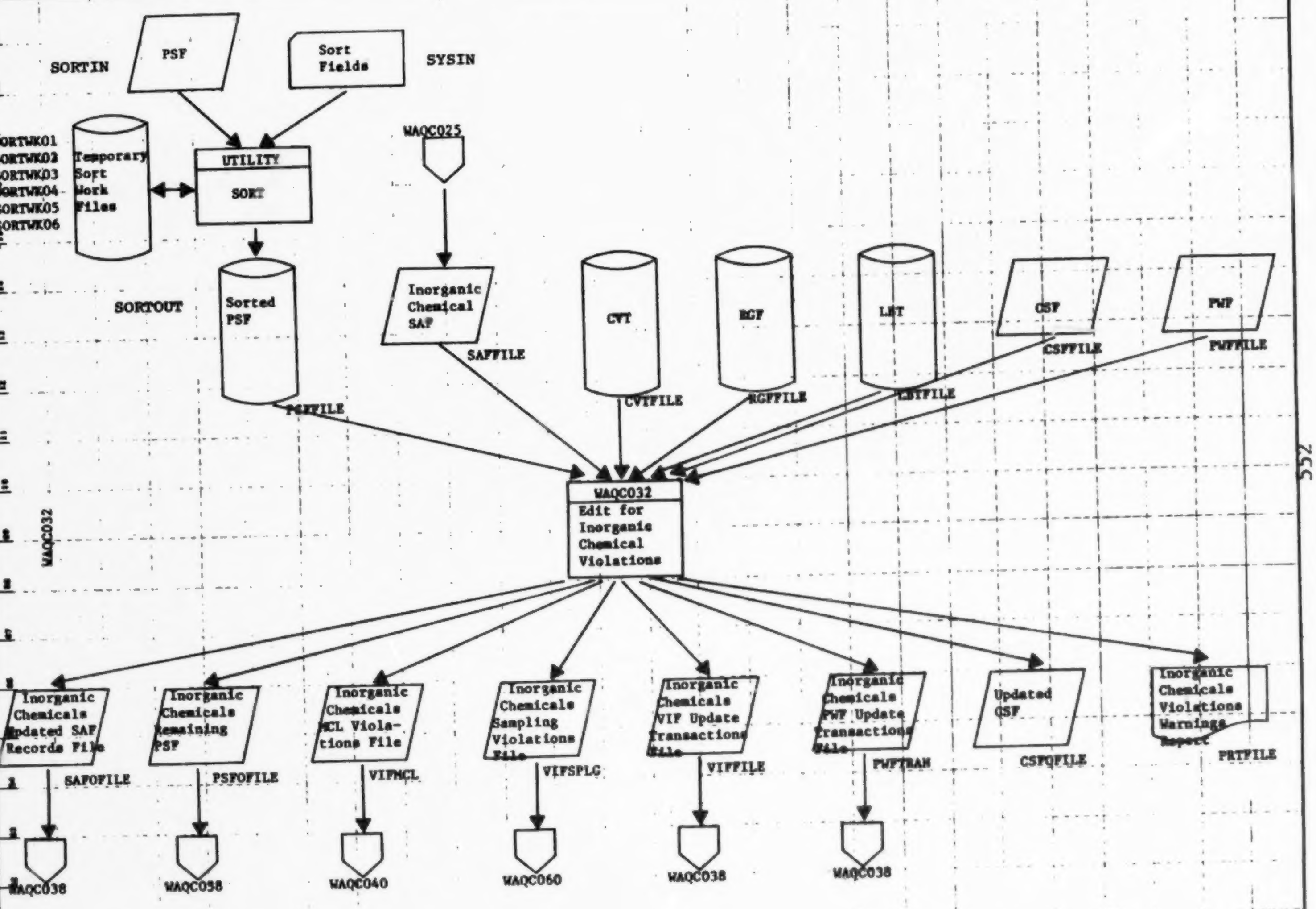
SORTIN
PSF
Sort Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted PSF
PSFFILE
WAQC025
Inorganic Chemical SAF
SAFFILE
CVT
CVTFILE
RGF
RGFFILE
LBT
LBTFILE
CSF
CSFFILE
PWF
PWFFILE
WAQC032
WAQC032
Edit for Inorganic Chemical Violations
Inorganic Chemicals Updated SAF Records File
SAFOFILE
WAQC038
Inorganic Chemicals Remaining PSF
PSFOFILE
WAQC038
Inorganic Chemicals MCL Violations File
VIFMCL
WAQC040
Inorganic Chemicals Sampling Violations File
VIFSPLG
WAQC060
Inorganic Chemicals VIF Update Transactions File
VIFFILE
WAQC038
Inorganic Chemicals PWF Update Transactions File
PWFTRAN
WAQC038
Updated CSF
CSFOFILE
Inorganic Chemicals Violations Warnings Report
PRTFILE

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f. WAQC032 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: Mount CVT file and rerun job.

MESSAGE: ERROR - NO RGF-FILE SUPPLIED
REMEDIAL ACTION: Mount RGF and rerun job.

MESSAGE: ERROR - SAF PWS-ID NOT ON PWF
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - SAF CONTAMINANT ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: ERROR - PSF PWS-ID NOT ON PWF FILE
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - PSF CONTAMINANT-ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

WAQC033 - Organic Chemicals Violations Edit

a. Function

This program edits the Organic Chemical records from the Contaminant Sample Analysis File (SAF) and the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and Sampling Violations. The MCL violations are used to build the Organic Chemical MCL Violations File which is passed to WAQC040. The sampling violations are used to produce the Organic Chemical Sampling Violations File which is passed to WAQC060. Both MCL and sampling violations are used to produce the Organic Chemicals Violations File (VIF) Update Transactions File which is passed to WAQC120. This program also builds the Organic Chemical Remaining PSF and the Organic Chemical Updated SAF.

b. Inputs:

Organic Chemical Sample Analysis File (SAF)

Periodic Sample File (PSF)

Public Water File (PWF)

Compliance Status File (CSF)

Regulations File (RGF)

Code Value Table (CVT)

Laboratory Table (LBT)

c. Processing Options:

None

d. Outputs:

Compliance Status File (CSF)

Organic Chemical Remaining Periodic Sample File

Organic Chemical Sample Analysis File

Organic Chemical MCL Violations File

Organic Chemical Sampling Violations File

Organic Chemical Violations File (VIF) Update Transactions File

Organic Chemical Public Water File Update Transactions File

Organic Chemical Warnings Report (WAQC.326)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

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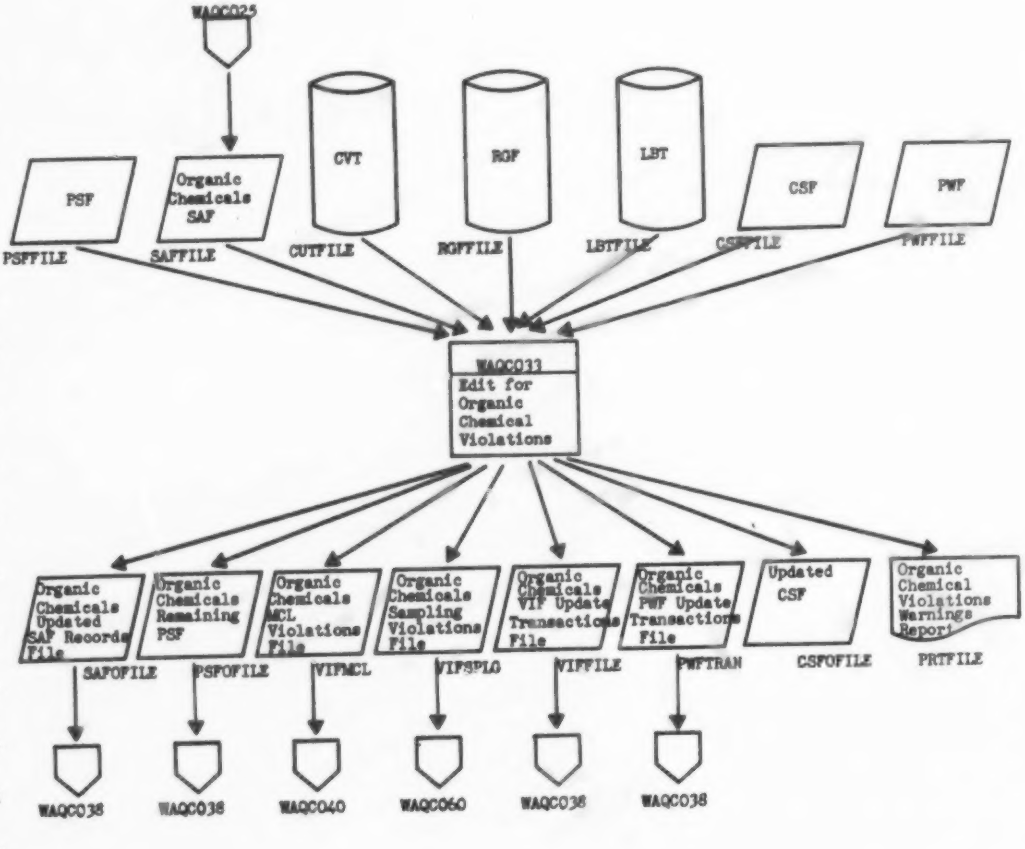
WAQC033


WAQC025
PSF
PSFFILE
Organic Chemicals SAF
SAFFILE
CVT
CVTFILE
RGF
RGFFILE
LBT
LBTFILE
CSF
CSFFILE
PWF
PWFFILE
WAQC033
Edit for Organic Chemical Violations
Organic Chemicals Updated SAF Records File
SAFOFILE
Organic Chemicals Remaining PSF
PSFOFILE
Organic Chemicals MCL Violations File
VIFMCL
Organic Chemicals Sampling Violations File
VIFSPLG
Organic Chemicals VIF Update Transactions File
VIFFILE
Organic Chemicals PWF Update Transactions File
PWFTRAN
Updated CSF
CSFOFILE
Organic Chemical Violations Warnings Report
PRTFILE
WAQC038
WAQC038
WAQC040
WAQC060
WAQC038
WAQC038

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f. WAQC033 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: Mount CVT file and rerun job.

MESSAGE: ERROR - NO RGF-FILE SUPPLIED
REMEDIAL ACTION: Mount RGF and rerun job.

MESSAGE: ERROR - SAF PWS-ID NOT ON PWF
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - SAF CONTAMINANT ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: ERROR - PSF PWS-ID NOT ON PWF FILE
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - PSF CONTAMINANT-ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminantion ID is invalid and must be corrected before the record can be processed.

WAQC034 - Bacteriological Violations Edit

a. Function:

This program will edit the Bacteriological sample records from the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and Sampling Violations. The MCL violations are used to build the Bacteriological MCL Violations File which is passed to program WAQC050. The Sampling violations are used to build the Bacteriological Sampling Violations File which is passed to program WAQC070. Both MCL and Sampling violations are used to build the Bacteriological Violations File (VIF) Update Transactions File which is passed to module WAQC120. This program also builds the Bacteriological Remaining PSF and the Bacteriological Updated Sample Analysis File.

b. Inputs:

Bacteriological Sample Analysis File

Periodic Sample File (PSF)

Public Water File (PWF)

Regulations File (RGF)

Laboratory Table (LBT)

Compliance Status File (CSF)

c. Processing Options:

None

d. Outputs:

Bacteriological Remaining Periodic Sample File

Bacteriological Updated Sample Analysis File

Bacteriological MCL Violations File

Bacteriological Sampling Violations File

Bacteriological Violations File (VTF) Update Transactions File

Updated Compliance Status File (CSF)

Bacteriological Violations Warnings Report
(WAQC.326)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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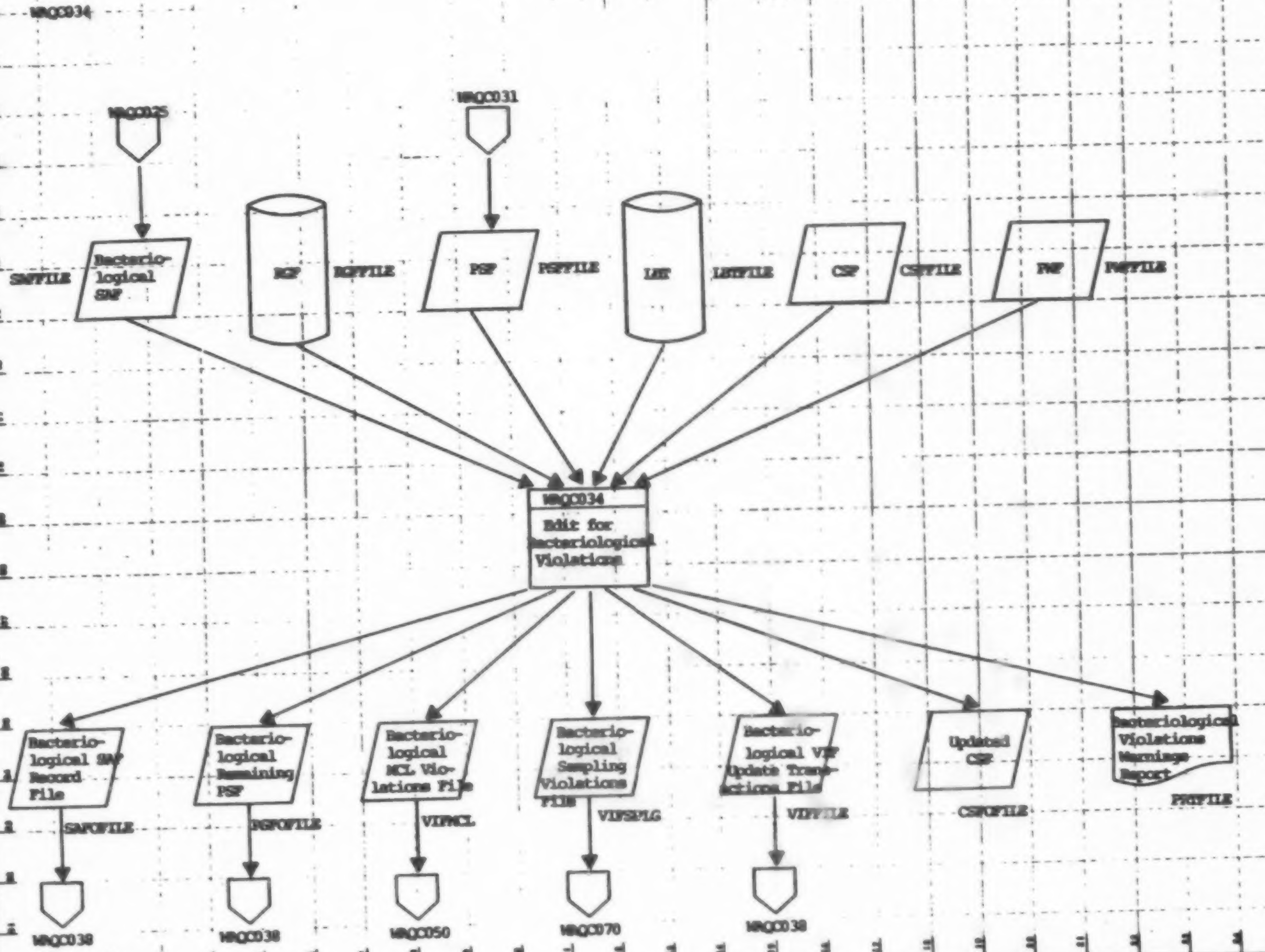
WAQC034
WAQC025
WAQC031
SNFFILE
Bacterio-
logical
SNF
RGF
RGFFILE
PSF
PSFFILE
LHT
LHTFILE
CSF
CSFFILE
PWF
PWFFILE
WAQC034
Edit for
Bacteriological
Violations
Bacterio-
logical SAF
Record
File
SAFOFILE
WAQC038
Bacterio-
logical
Remaining
PSF
RGFOFILE
WAQC038
Bacterio-
logical
MCL Vio-
lations File
VIFMCL
WAQC050
Bacterio-
logical
Sampling
Violations
File
VIFSPLG
WAQC070
Bacterio-
logical VIF
Update Trans-
actions File
VIFFILE
WAQC038
Updated
CSF
CSFOFILE
Bacteriological
Violations
Warnings
Report
PRTFILE

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f. WAQC034 - Error Messages and Remedial Actions

MESSAGE: OLD PSF SAMPLE TRANSFERRED TO SAF
REMEDIAL ACTION: A sample was found on the PSF with a sample date prior to the start date of the compliance period being processed. It was transferred to the SAF without being checked for compliance. This record must be checked manually.

MESSAGE: COMPLIANCE PERIOD SKIPPED
REMEDIAL ACTION: One or more compliance periods have been missed since the last date shown on the CSF and the current processing date. This may occur with the first run of a newly activated PWS. Otherwise, the program must be rerun using these input files with an earlier date in the PROC to pick up the missed period(s).

MESSAGE: NO POPULATION TABLE ENTRY
REMEDIAL ACTION: There was no matching entry in the Population Table for Federal and/or State Regulations for the population served for this PWS. Verify the entry in the file. If it is correct, the Population Table will have to be modified. Notify programming.

MESSAGE: COMPLIANCE PERIOD ALREADY PROCESSED
REMEDIAL ACTION: This is an information message only, not an error. Processing was bypassed for this PWS so that no duplication will occur.

MESSAGE: NO NON-CHLORINE RETEST WITHIN TIME REQ.
REMEDIAL ACTION: A PWS using Chlorine Residual monitoring fell below the required chlorine level and did not take a retest sample by some other method within the allowable retest time. This is a warning and does not stop processing.

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WAQC035 - Gross Alpha Violations Edit

a. Function:

This program will edit the Gross Alpha Records from the Contaminant Sample Analysis File (SAF) and the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and Sampling violations. The MCL violations are used to build the Gross Alpha MCL Violations File which is passed to WAQC041. The Sampling violations are used to produce the Gross Alpha Sampling Violations File which is passed to WAQC061. Both MCL and Sampling violations are used to produce the Gross Alpha VIF Update Transactions File which is passed to WAQC120. This program also builds the Gross Alpha Remaining Periodic Sample File and the Gross Alpha Updated Sample Analysis File.

b. Inputs:

Gross Alpha Sample Analysis File

Periodic Sample File (PSF)

Public Water File (PWF)

Compliance Status File (CSF)

Regulations File (RGF)

Laboratory Table (LBT)

c. Processing Options:

None

d. Outputs:

Compliance Status File (CSF)

Gross Alpha Remaining Periodic Sample File

Gross Alpha Sample Analysis File

Gross Alpha MCL Vioalticns File

Gross Alpha Sampling Violaticns File

Gross Alpha VIF Update Transactions File

Gross Alpha Warnings Report (WAQC.326)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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Drawn By ______

Procedure ______

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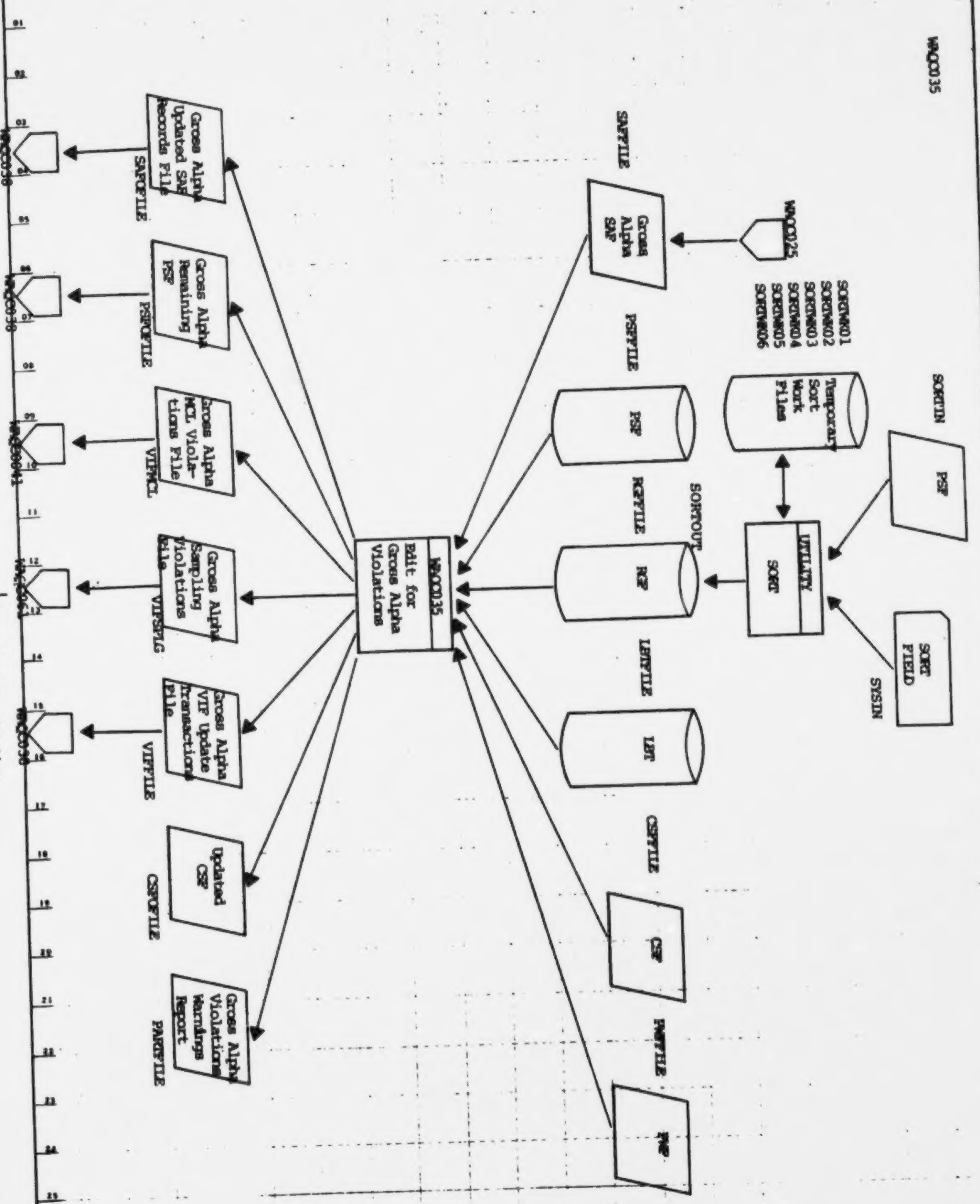
WACO035
SORTIN
PSF
SYSIN
SORT FIELD
UTILITY
SORT
SORTOUT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WACO025
SAPFILE
Gross Alpha SAP
PSFFILE
PSF
RGFFILE
RGF
LBTFILE
LBT
CSFFILE
CSF
PMFFILE
PMF
WACO035
Edit for Gross Alpha Violations
Gross Alpha Updated SAP Records File
SAPOFILE
WACO036
Gross Alpha Remaining PSF
PSFOFILE
WACO038
Gross Alpha MCL Violations File
VIPMCL
Gross Alpha Sampling Violations File
VIPSPLG
Gross Alpha VIP Update Transactions File
VIPFILE
WACO036
Updated CSF
CSFOFILE
Gross Alpha Violations Warnings Report
PARFILE

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f. WAQC035 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: Mount CVT file and rerun job.

MESSAGE: ERROR - NO RGF-FILE SUPPLIED
REMEDIAL ACTION: Mount RGF and rerun job.

MESSAGE: ERROR - SAF PWS-ID NOT ON PWF
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - SAF CONTAMINANT ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: ERROR - PSF PWS-ID NOT ON PWF FILE
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - PSF CONTAMINANT-ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: PSF SAMPLE RECEIVED DATED TOO OLD
REMEDIAL ACTION: None. This is to notify the user that the sample was not processed.

WAQC036 - Gross Beta Violations Edit

a. Function:

This program will edit the Gross Beta Records from the Contaminant Sample Analysis File (SAF) and the Periodic Sample File (PSF) for Maximum Contaminant Level (MCL) and Sampling Violations. The MCL violations are used to build the Gross Beta MCL Violations File which is passed to program WAQC041. The Sampling violations are used to produce the Gross Beta Sampling Violations File which is passed to program WAQC061. Both MCL and Sampling violations are used to produce the Gross Beta VIF Update Transactions File which is passed to program WAQC120. This program also builds the Gross Beta Remaining Periodic Sample File and the Gross Beta Updated Sample Analysis File.

b. Inputs:

Gross Beta Sample Analysis File

Periodic Sample File (PSF)

Public Water File (PWF)

Compliance Status File (CSF)

Regulations File (RGF)

Laboratory Table (LBT)

c. Processing Options:

None

d. Outputs:

Compliance Status File (CSF)

Gross Beta Remaining Periodic Sample File

Gross Beta Sample Analysis File

Gross Beta MCL Violations File

Gross Beta VIF Update Transactions File

Gross Beta Warnings Report (WAQC.326

e. I/O Chart

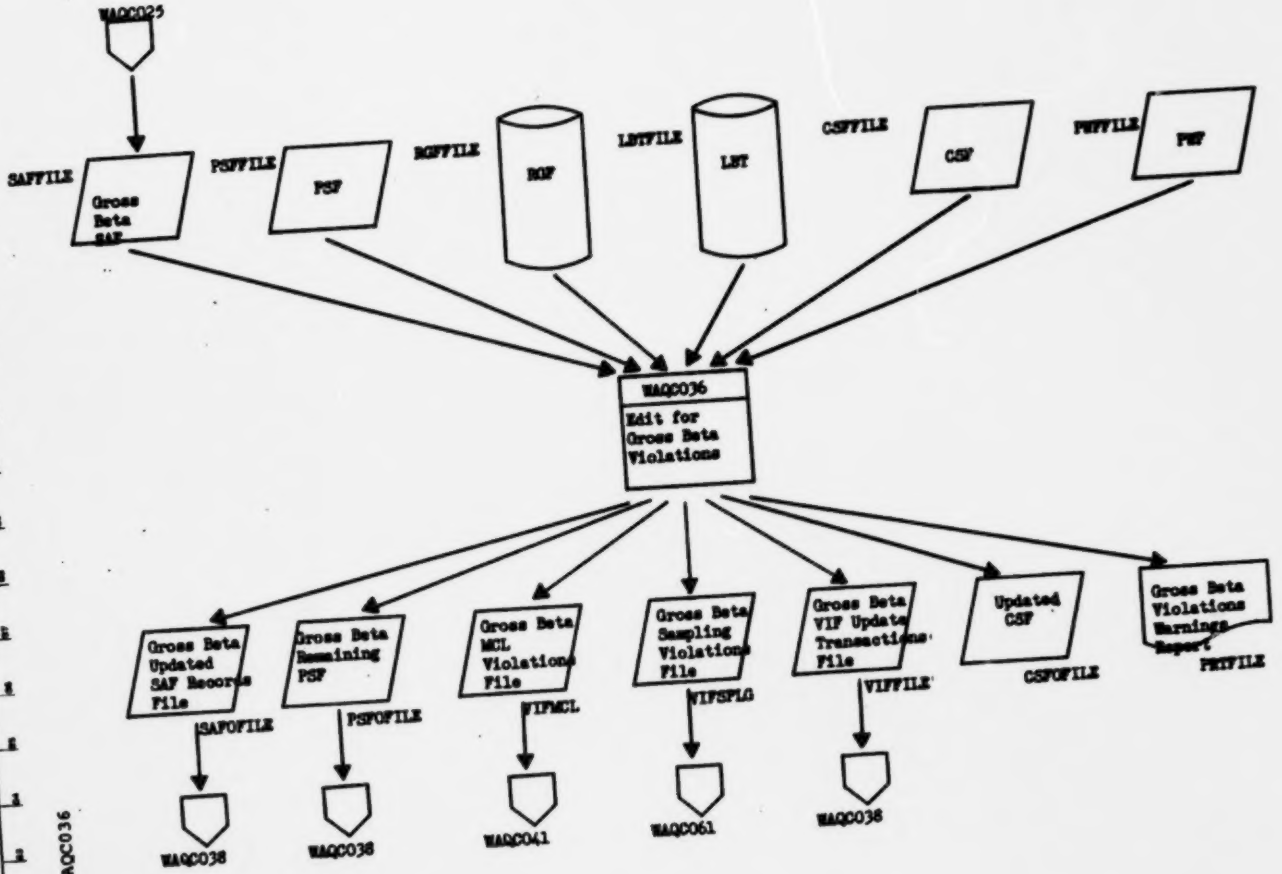
IBM DIAGRAMMING AND CHARTING WORKSHEET

Date ____ Page ____ of ____

Application ____ Drawn By ____

Procedure ____

WAQC036


WAQC025
SAFFILE
Gross Beta SAF
PSFFILE
PSF
RGFFILE
RGF
LBTFILE
LBT
CSFFILE
CSF
PRFFILE
PRF
WAQC036
Edit for Gross Beta Violations
Gross Beta Updated SAF Records File
SAFOFILE
WAQC038
Gross Beta Remaining PSF
PSFOFILE
WAQC038
Gross Beta MCL Violations File
VIFMCL
WAQC041
Gross Beta Sampling Violations File
VIFSPLG
WAQC061
Gross Beta VIF Update Transactions File
VIFFILE
WAQC038
Updated CSF
CSFOFILE
Gross Beta Violations Warnings Report
PRTFILE

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f. WAQC036 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: Mount CVT file and rerun job.

MESSAGE: ERROR - NO RGF FILE SUPPLIED
REMEDIAL ACTION: Mount RGF and rerun job.

MESSAGE: ERROR - SAF PWS-ID NOT ON PWF
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - SAF CONTAMINANT-ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: ERROR - PSF PWS-ID NOT ON PWF-FILE
REMEDIAL ACTION: None. This is to notify the user that the PWS must be added to the file before this transaction can be processed.

MESSAGE: ERROR - PSF CONTAMINANT-ID INVALID
REMEDIAL ACTION: None. This is to notify the user that the Contaminant ID is invalid and must be corrected before the record can be processed.

MESSAGE: PSF SAMPLE RECEIVED DATED TOO OLD
REMEDIAL ACTION: None. Sample was rejected.

MESSAGE: ERROR - NO FEDERAL GROSS BETA RGF RECORDS
REMEDIAL ACTION: No Gross Beta regulations have been entered on the RGF. Gross Beta regulations should be coded and entered along with the rest of the Federal and State Regulations into REGS010 before this transaction can be processed.

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MESSAGE: ERROR - NO STATE GROSS BETA RGF RECORDS

REMEDIAL ACTION: No State Gross Beta regulations have been entered on the RGF. Gross Beta regulations should be coded and entered along with the rest of the Federal and State Regulations into REGS010 before this transaction can be processed.

MESSAGE: ERROR - GROSS BETA EMITTER RGF RECORDS MISSING

REMEDIAL ACTION: The Gross Beta Regulations for a specific Gross Beta Emitter have not been entered in the RGF. The specific regulation should be coded and entered along with the rest of the Federal and State Regulations into REGS010 before this transaction can be processed1

MESSAGE: ERROR - NO GROSS BETA EMITTER RGF RECORDS

REMEDIAL ACTION: No Gross Beta Emitter records have been entered on the RGF. All Federal and State Regulations should be coded for Gross Beta Emitters and entered along with the rest of the Federal and State Regulations into REGS010 before this transaction can be processed.

WAQC037 - Operation Report Violations Edit

a. Function

This program will edit the Public Water File (PWF) for Operations Report Violations. The violations are used to build the Operations Report Violations File which is passed to WAQC090, and the Operation Report Violations File Update Transaction File which is passed to WAQC120.

b. Inputs:

Compliance Date File

Public Water File (PWF)

c. Processing Options:

None

d. Outputs:

Operations Report Violations File

Operations Report Violations File (VIF) Update Transaction File

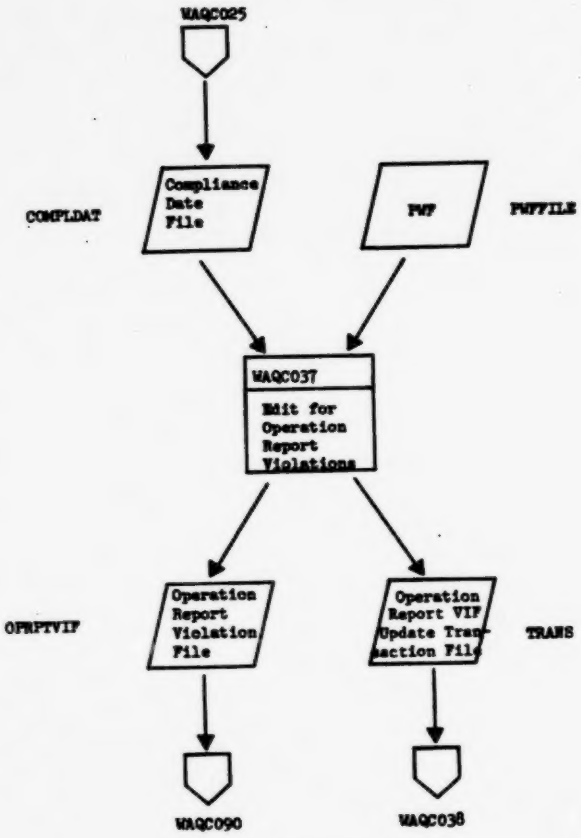
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

Procedure ____________ Drawn By ____________

WAQC037



WAQC025
COMPLDAT
Compliance Date File
PWF
PWFFILE
WAQC037
Edit for Operation Report Violations
OPRPTVIF
Operation Report Violation File
Operation Report VIF Update Transaction File
TRANS
WAQC090
WAQC038

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f. WAQC037 - Error Messages and Remedial Actions

None.

WAQC038 - Compliance Files Merge

a. Function

This program will merge the various files from the compliance programs (WAQC031 - WAQC037) and produce a new permanent Periodic Sample File (PSF) along with the update transactions for the Public Water File (PWF) and the Violations File (VIF), and the Completion Report.

b. Inputs:

Sorted Sample Analysis File (SAF)

Turbidity Remaining Periodic Sample File

Inorganic Chemical Remaining Periodic Sample File

Organic Chemical Remaining Periodic Sample File

Bacteriological Remaining Periodic Sample File

Gross Alpha Remaining Periodic Sample File

Gross Beta Remaining Period Sample File

Turbidity Violations File (VIF) Update Transactions File

Inorganic Chemical VIF Update Transactions File

Organic Chemical VIF Update Transactions File

Bacteriological VIF Update Transactions File

Gross Alpha VIF Update Transactions File

Grosss Beta VIF Update Transactions File

Operation Report VIF Update Transactions File

Inorganic Chemical PWF Update Transactions File

Organic Chemical PWF Update Transactions File

c. Processing Options:

None

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d. Outputs:

Sample Analysis File (SAF)

Periodic Sample File (PSF)

Violations File Compliance Input Transactions File

PWF Input Transactions File

Completion Report (WAQC.327)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

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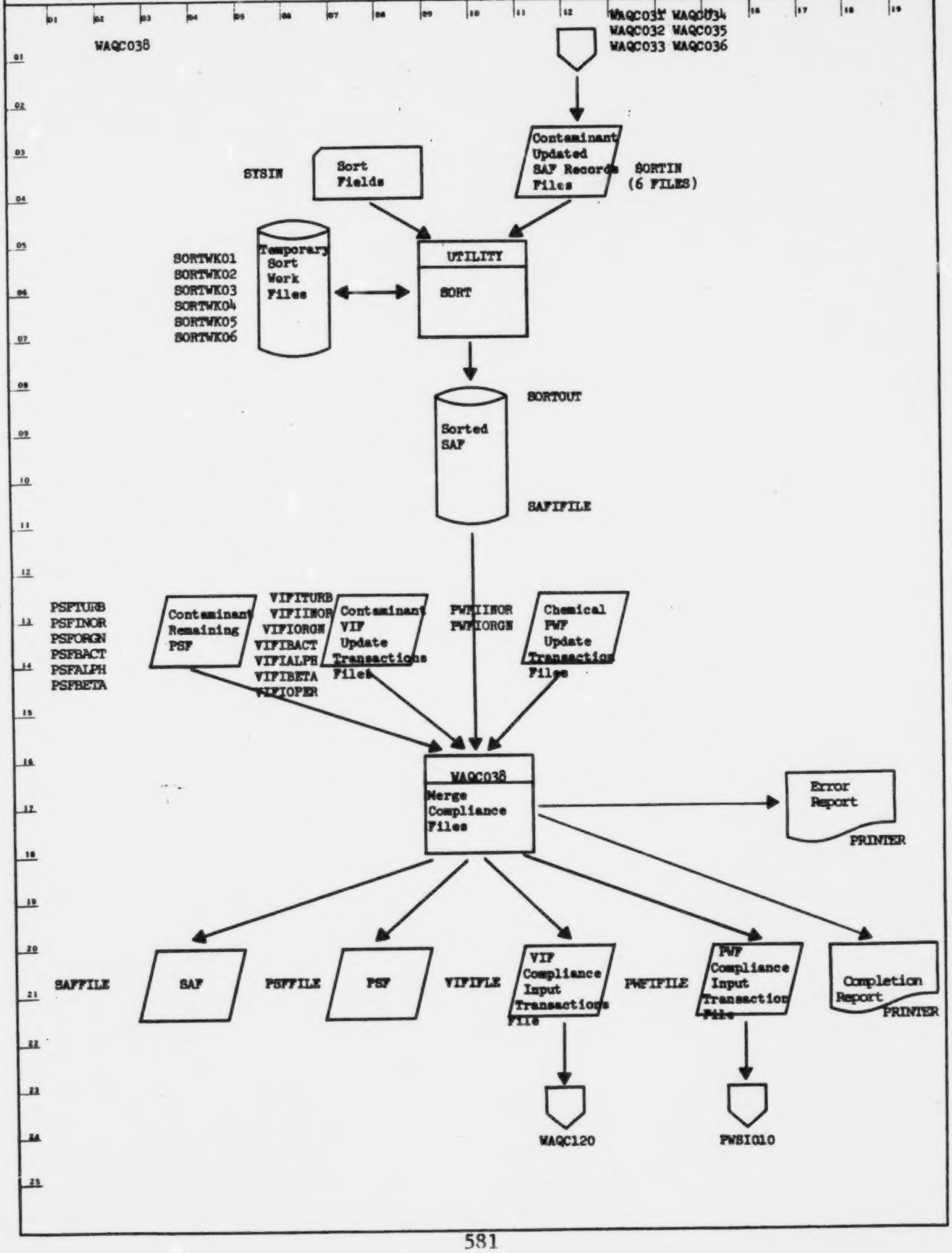

WAQC038
WAQC031 WAQC034
WAQC032 WAQC035
WAQC033 WAQC036
Contaminant Updated SAF Records Files
SORTIN (6 FILES)
SYSIN
Sort Fields
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
SORTOUT
Sorted SAF
SAFIFILE
PSFTURB
PSFINOR
PSFORGN
PSFBACT
PSFALPH
PSFBETA
Contaminant Remaining PSF
VIFITURB
VIFIINOR
VIFIORGN
VIFIBACT
VIFIALPH
VIFIBETA
VIFIOPER
Contaminant VIF Update Transactions Files
PWFIINOR
PWFIORGN
Chemical PWF Update Transaction Files
WAQC038
Merge Compliance Files
Error Report
PRINTER
SAFFILE
SAF
PSFFILE
PSF
VIFIFLE
VIF Compliance Input Transactions File
PWFIFILE
PWF Compliance Input Transaction File
Completion Report
PRINTER
WAQC120
PWSI010

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f. WAQC038 - Error Messages and Remedial Actions

None.

WAQC040 - Chemical MCL Violations Report

a. Function

This program will produce the Chemical MCL Violations Report sorted in a user-defined sequence using data from the Chemical MCL Compliance Violations File.

b. Inputs:

Chemical MCL Compliance Violations Files

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Chemical MCL Violations Report (WAQC.306)

Standard Sort Sequence Report (MSIS.309 and 311)

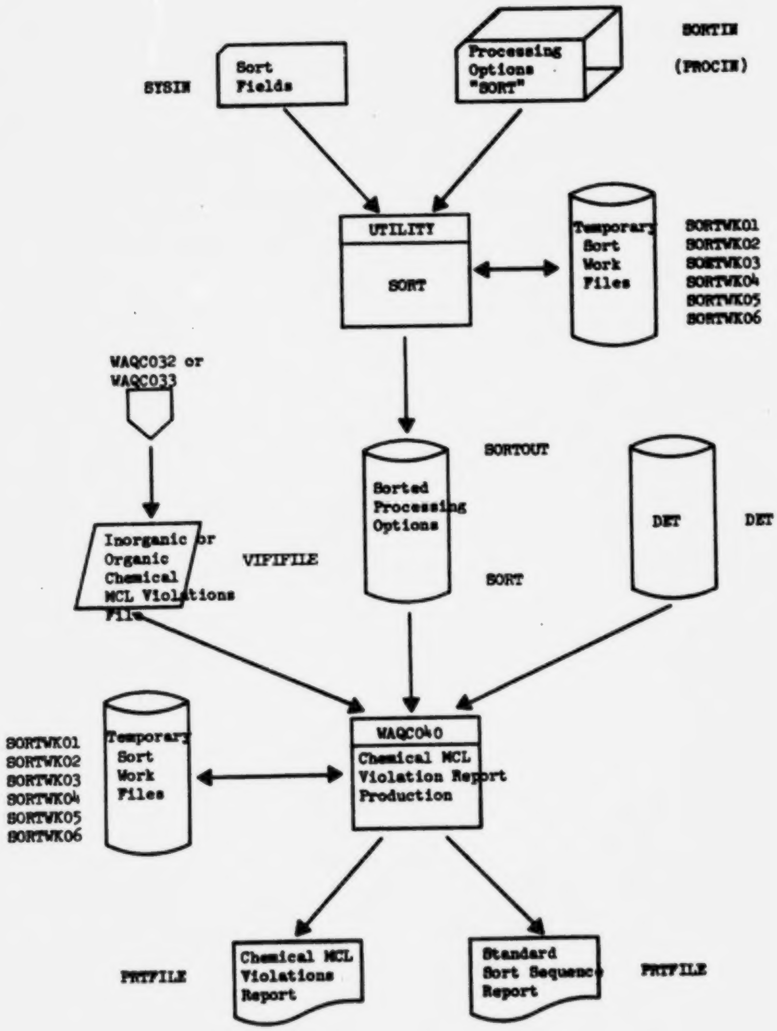
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________________ Date ____________ Page _____ of _____

Procedure ____________________ Drawn By ____________________

WAQC040



SYSIN
Sort Fields
Processing Options "SORT"
SORTIN
(PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC032 or
WAQC033
Sorted Processing Options
SORTOUT
SORT
DET
DET
Inorganic or Organic Chemical MCL Violations File
VIFIFILE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC040
Chemical MCL Violation Report Production
PRTFILE
Chemical MCL Violations Report
Standard Sort Sequence Report
PRTFILE

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f. WAQC040 - Error Messages and Remedial Actions

Any Error Messages that do not appear below can be found in Standard Error Messages and Remedial Actions of SORT Records.

MESSAGE: ERROR - NO PROC ON VIFI FILE
REMEDIAL ACTION: obtain PROC from data entry and rerun job.

MESSAGE: ERROR - MORE THAN 40 VIOLATIONS RECORDS ON DET
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - NO DET FILE
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - PROC TYPE NOT SORT
REMEDIAL ACTION: check for keypunch error, if none, return option to data entry for correction, obtain new option and rerun job.

WAQC041 - Radiological MCL Violations Report

a. Function

This program will produce the Radiological Maximum Contaminant Level (MCL) Violations Report sorted in a user-defined sequence using data from the Radiological MCL Violations File.

b. Inputs:

Radiological MCL Compliance Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Radiological MCL Violations Report (WAQC.309)

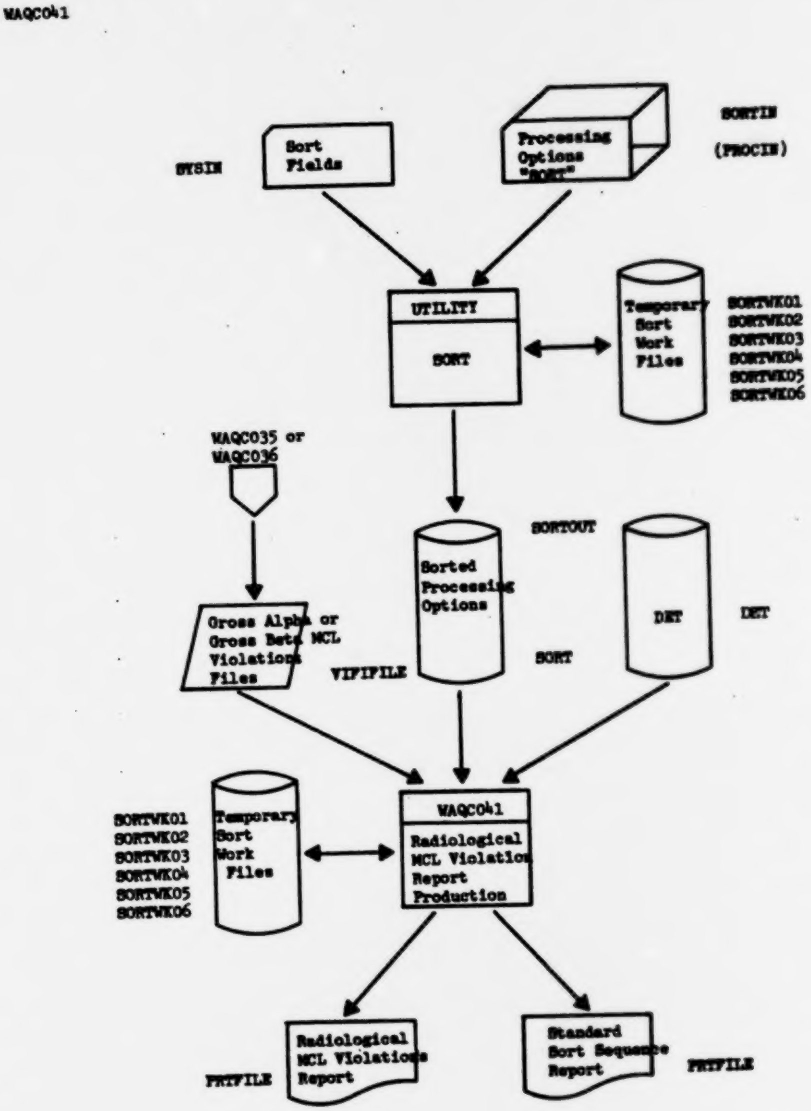
Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC041
Sort Fields
SYSIN
Processing Options "SORT"
SORTIN
(PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC035 or WAQC036
Sorted Processing Options
SORTOUT
SORT
DET
DET
Gross Alpha or Gross Beta MCL Violations Files
VIFIFILE
WAQC041
Radiological MCL Violation Report Production
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Radiological MCL Violations Report
PRTFILE
Standard Sort Sequence Report
PRTFILE

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f. WAQC041 - Error Messages and Remedial Actions

Any Error Messages that do not appear below can be found in Standard Error Messages and Remedial Actions of SORT Records.

MESSAGE: ERROR - NO PROC ON VIFI FILE
REMEDIAL ACTION: obtain PROC from data entry and rerun job.

MESSAGE: ERROR - MORE THAN 40 VIOLATIONS RECORDS ON DET
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - NO DET FILE
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - PROC TYPE NOT SORT
REMEDIAL ACTION: check for keypunch error, if none, return option to data entry for correction, obtain new option and rerun job.

WAQC050 - Bacteriological MCL Violations Report

a. Function

This program will produce the Bacteriological Maximum Contaminant Level (MCL) Violations Report sorted in a user-defined sequence using data from the Bacteriological MCL Violations File.

b. Inputs:

Bacteriological MCL Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Bacteriological MCL Violations Report (WAQC.307)

Standard Sort Sequence Report (MSIS.309 and 311)

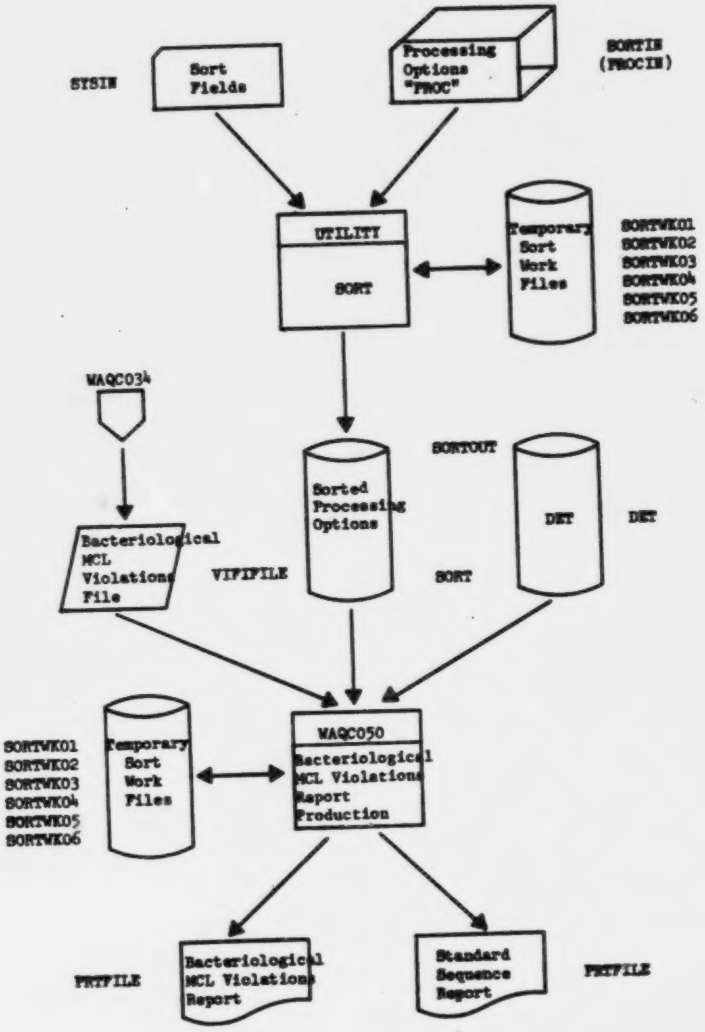
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________________ Date ____________ Page ____ of ____

Procedure ____________________ Drawn By ____________

WAQC050


SYSIN
Sort Fields
Processing Options "PROC"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC034
Bacteriological MCL Violations File
VIFIFILE
Sorted Processing Options
SORTOUT
SORT
DET
DET
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC050
Bacteriological MCL Violations Report Production
PRTFILE
Bacteriological MCL Violations Report
Standard Sequence Report
PRTFILE

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f. WAQC050 - Error Messages and Remedial Actions

Any Error Messages that do not appear below can be found in Standard Error Messages and Remedial Actions of SORT Records.

MESSAGE: ERROR - NO PROC ON VIFI FILE
REMEDIAL ACTION: obtain PROC from data entry and rerun job.

MESSAGE: ERROR - MORE THAN 40 VIOLATIONS RECORDS ON DET
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - NO DET FILE
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - PROC TYPE NOT SORT
REMEDIAL ACTION: check for keypunch error, if none, return option to data entry for correction, obtain new option and rerun job.

WAQC051 - Turbidity MCL Violations Report

a. Function

This program will produce the Turbidity Maximum Contaminant Level (MCL) Violations Report sorted in a user-defined sequence using data from the Turbidity MCL Violations File.

b. Inputs:

Turbidity MCL Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Turbidity MCL Violations Report (WAQC.308)

Standard Sort Sequence Report (MSIS.309 & 311)

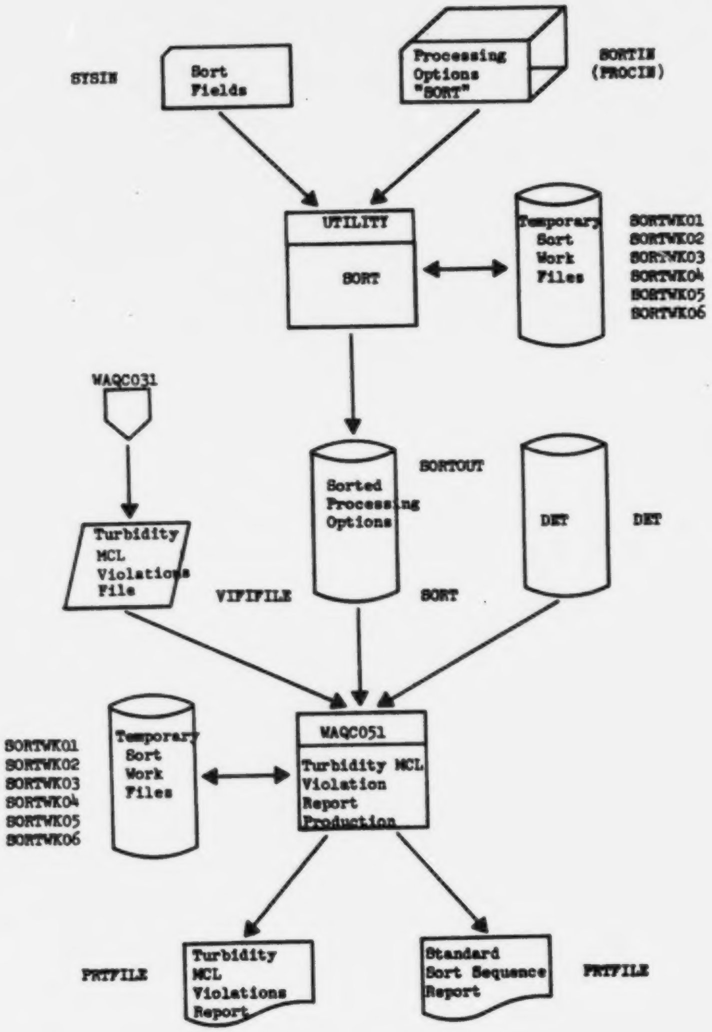
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Procedure ______ Drawn By ______

WAQC051


SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC031
Turbidity MCL Violations File
VIFIFILE
Sorted Processing Options
SORTOUT
SORT
DET
DET
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC051
Turbidity MCL Violation Report Production
PRTFILE
Turbidity MCL Violations Report
Standard Sort Sequence Report
PRTFILE

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f. WAQC051 - Error Messages and Remedial Actions

Any Error Messages that do not appear below can be found in Standard Error Messages and Remedial Actions of SORT Records.

MESSAGE: ERROR - NO PROC ON VIFI FILE
REMEDIAL ACTION: obtain PROC from data entry and rerun job.

MESSAGE: ERROR - MORE THAN 40 VIOLATIONS RECORDS ON DET
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - NO DET FILE
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - PROC TYPE NOT SORT
REMEDIAL ACTION: check for keypunch error, if none, return option to data entry for correction, obtain new option and rerun job.

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WAQC060 - Chemical Sampling Violations Report

a. Function

This program will produce the Chemical Sampling Violations Report sorted in a user-defined sequence using the Chemical Sampling Violations File.

b. Inputs:

Chemical Sampling Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Chemical Sampling Violations Report (WAQC.310)

Standard Sort Sequence Report (MSTS.309 & 311)

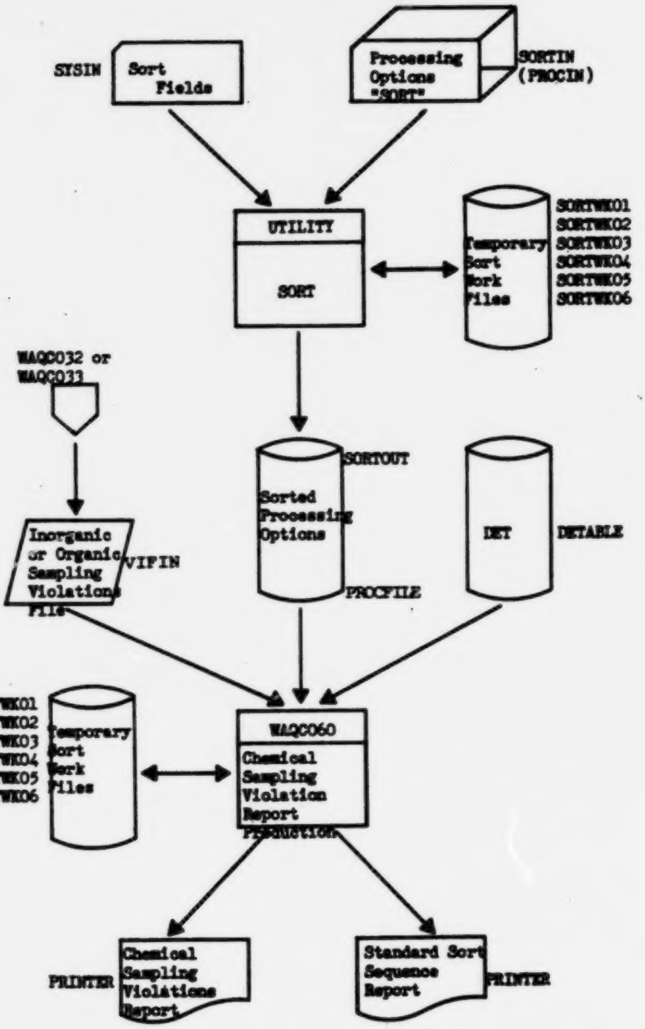
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ______ of ______

Procedure ______ Drawn By ______

WAQC060



SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC032 or WAQC033
Inorganic or Organic Sampling Violations File
VIPIN
Sorted Processing Options
SORTOUT
PROCFILE
DET
DETABLE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC060
Chemical Sampling Violation Report Production
PRINTER
Chemical Sampling Violations Report
Standard Sort Sequence Report
PRINTER

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f. WAQC060 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - FIRST RECORD ON VIFI NOT HEADER
REMEDIAL ACTION: make sure the correct file has been mounted. If so, there is a probable program error or I/O error. Notify programmer.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: probable program error. Flush job stream and notify programmer.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: program area not large enough to contain DET. Program must be changed to allow extra entries. Notify programmer.

MESSAGE: ERROR - DET FILE NOT PROVIDED
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - NO VIFI PROVIDED
REMEDIAL ACTION: mount VIFI input file and rerun job.

MESSAGE: ERROR - SORT OPTIONS RECORD BLANK
REMEDIAL ACTION: flush job stream and have data entry code a SORT processing option for this job before attempting a rerun.

MESSAGE: ERROR - SORT SEQUENCE SAME AS INPUT SEQUENCE
REMEDIAL ACTION: no sort option is required for this job if this sequence is desired. Rerun job without SORT option.

WAQC061 - Radiological Sampling Violations Report

a. Function

This program will produce the Radiological Sampling Violations Report sorted in a user-defined sequence using data from the Radiological Sampling Violations File.

b. Inputs:

Radiological Sampling Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Radiological Sampling Violations Report (WAQC.313)

Standard Sort Sequence Report (MSIS.309 & 311)

e. I/O Chart

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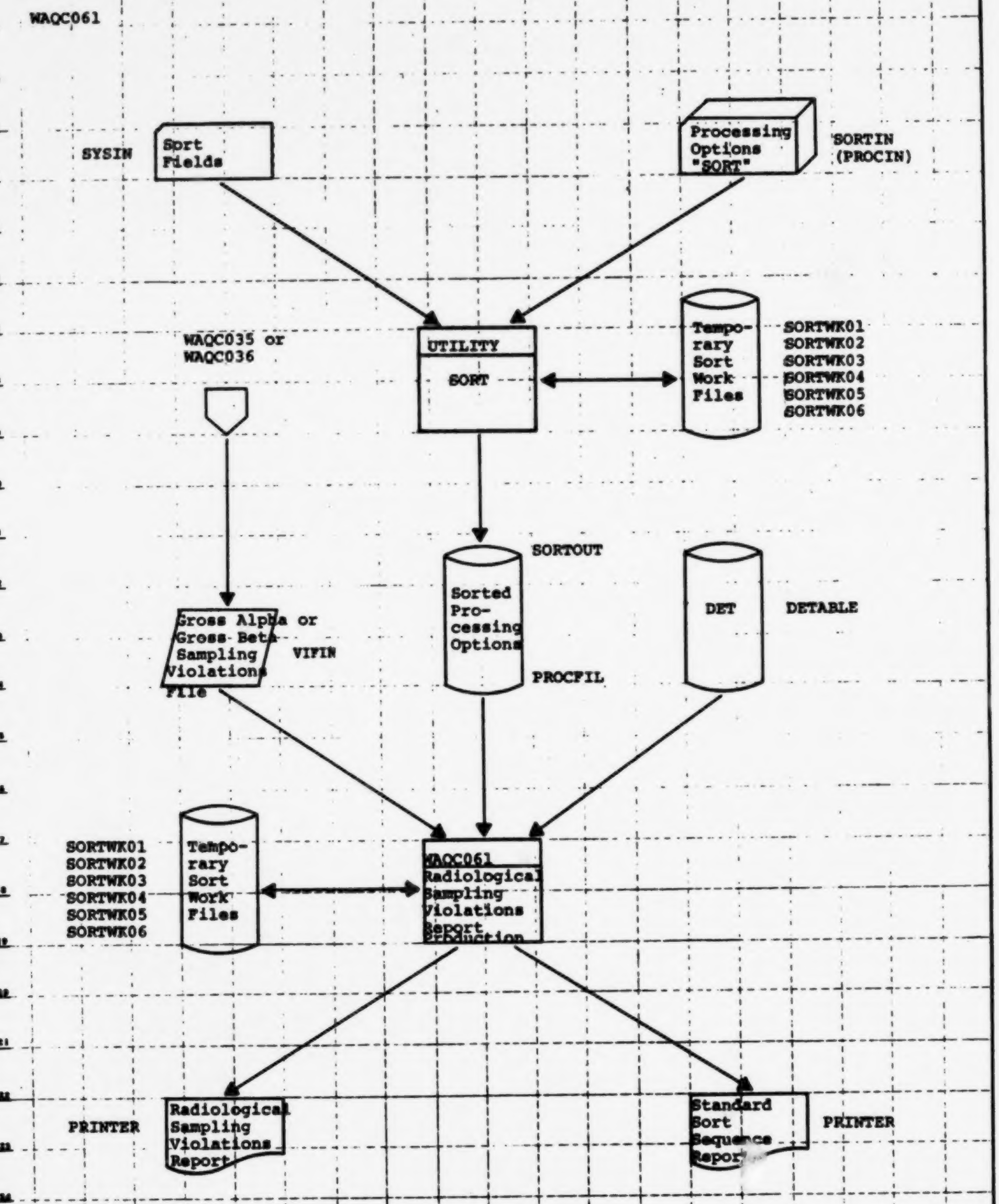
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ________ Date ________ Page ____ of ____

Procedure ________ Drawn By ________


WAQC061
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC035 or WAQC036
SORTOUT
Sorted Processing Options
PROCFIL
DET
DETABLE
Gross Alpha or Gross Beta Sampling Violations File
VIFIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC061
Radiological Sampling Violations Report Production
PRINTER
Radiological Sampling Violations Report
Standard Sort Sequence Report
PRINTER

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f. WAQC061 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - FIRST RECORD ON VIFI NOT HEADER

REMEDIAL ACTION: make sure the correct file has been mounted. If so, there is a probable program error or I/O error. Notify programmer.

MESSAGE: ERROR - RECORD TYPE NOT SORT

REMEDIAL ACTION: probable program error. Flush job stream and notify programmer.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES

REMEDIAL ACTION: program area not large enough to contain DET. Program must be changed to allow extra entries. Notify programmer.

MESSAGE: ERROR - DET FILE NOT PROVIDED

REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - NO VIFI PROVIDED

REMEDIAL ACTION: mount VIFI input file and rerun job.

MESSAGE: ERROR - SORT OPTIONS RECORD BLANK

REMEDIAL ACTION: flush job stream and have data entry code a SORT processing option for this job before attempting a rerun.

MESSAGE: ERROR - SORT SEQUENCE SAME AS INPUT SEQUENCE

REMEDIAL ACTION: no sort option is required for this job if this sequence is desired. Rerun job without SORT option.

WAQC070 - Bacteriological Sampling Violations Report

a. Function

This program will produce the Bacteriological Sampling Violations Report sorted in a user-defined sequence using data from the Bacteriological Sampling Violations File.

b. Inputs:

Bacteriological Sampling Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Bacteriological Sampling Violations Report (WAQC.311)

Standard Sort Sequence Report (MSIS.309 & 311)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

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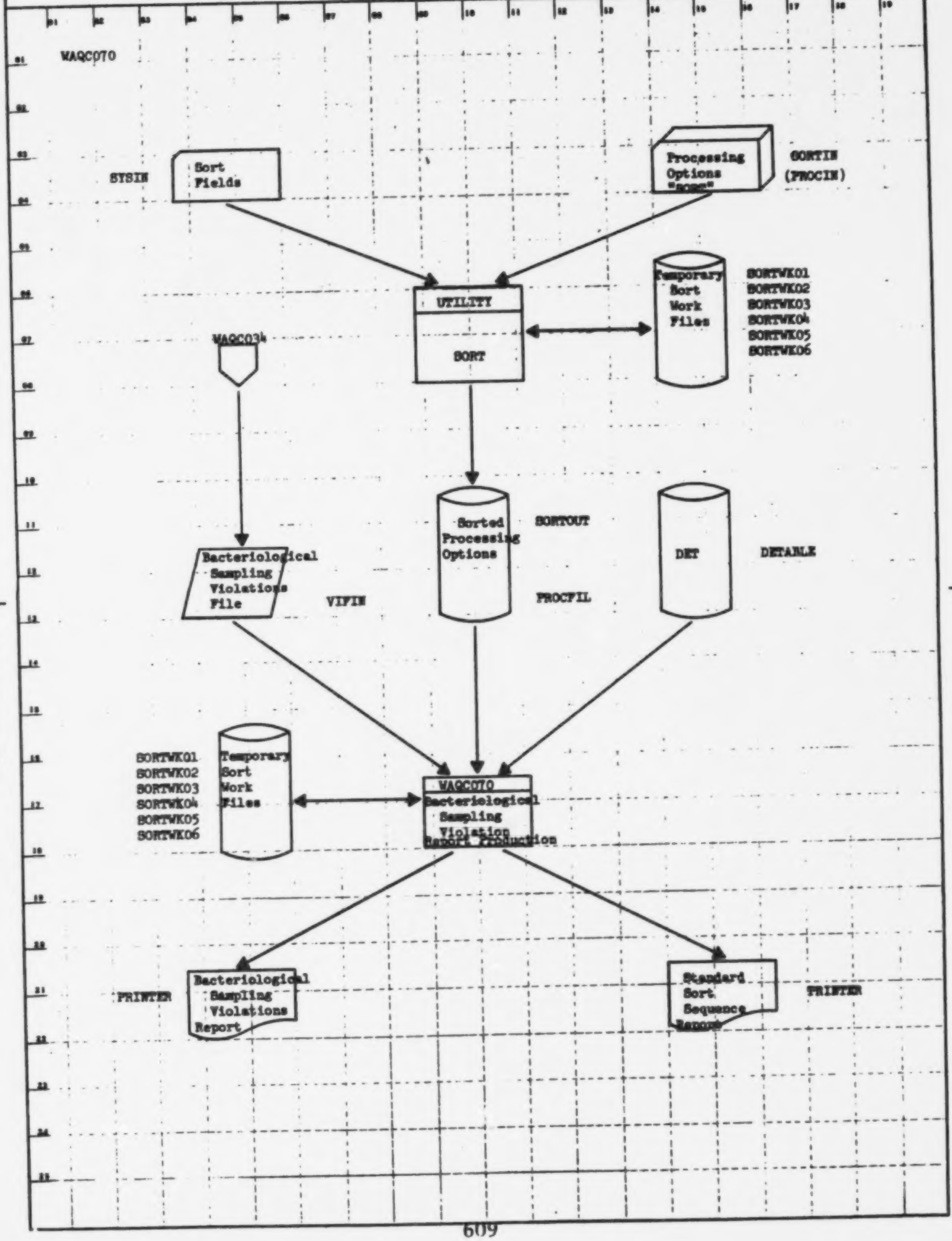
WAQC070
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC034
Bacteriological Sampling Violations File
VIFIN
Sorted Processing Options
SORTOUT
PROCFIL
DET
DETABLE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC070
Bacteriological Sampling Violation Report Production
PRINTER
Bacteriological Sampling Violations Report
Standard Sort Sequence Report
PRINTER

f. WAQC070 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - FIRST RECORD ON VIFI NOT HEADER

REMEDIAL ACTION: make sure the correct file has been mounted. If so, there is a probable program error or I/O error. Notify programmer.

MESSAGE: ERROR - RECORD TYPE NOT SORT

REMEDIAL ACTION: probable program error. Flush job stream and notify programmer.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES

REMEDIAL ACTION: program area not large enough to contain DET. Program must be changed to allow extra entries. Notify programmer.

MESSAGE: ERROR - DET FILE NOT PROVIDED

REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - NO VIFI PROVIDED

REMEDIAL ACTION: mount VIFI input file and rerun job.

MESSAGE: ERROR - SORT OPTIONS RECORD BLANK

REMEDIAL ACTION: flush job stream and have data entry code a SORT processing option for this job before attempting a rerun.

MESSAGE: ERROR - SORT SEQUENCE SAME AS INPUT SEQUENCE

REMEDIAL ACTION: no sort option is required for this job if this sequence is desired. Rerun job without SORT option.

WAQC080 - Turbidity Sampling Violations Report

a. Function

This program will produce the Turbidity Sampling Violations Report sorted in a user-defined sequence using data from the Turbidity Sampling Violations File.

b. Inputs:

Turbidity Sampling Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Turbidity Sampling Violations Report (WAQC.312)

Standard Sort Sequence Report (MSIS.309 & 311)

e. I/O Chart

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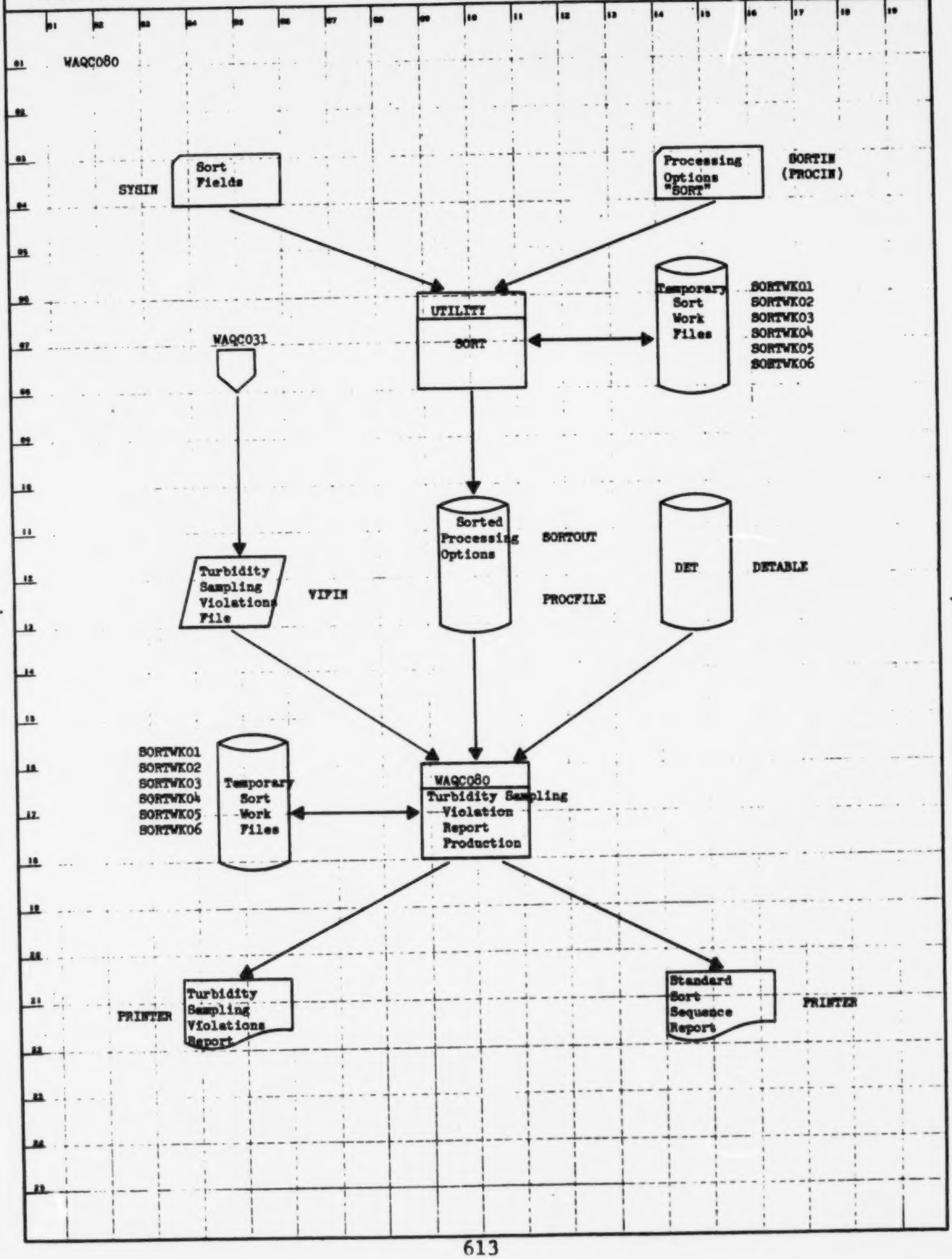
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC080
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC031
Turbidity Sampling Violations File
VIFIN
Sorted Processing Options
SORTOUT
PROCFILE
DET
DETABLE
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC080
Turbidity Sampling Violation Report Production
PRINTER
Turbidity Sampling Violations Report
Standard Sort Sequence Report
PRINTER

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f. WAQC080 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - FIRST RECORD ON VIFI NOT HEADER
REMEDIAL ACTION: make sure the correct file has been mounted. If so, there is a probable program error or I/O error. Notify programmer.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: probable program error. Flush job stream and notify programmer.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: program area not large enough to contain DET. Program must be changed to allow extra entries. Notify programmer.

MESSAGE: ERROR - DET FILE NOT PROVIDED
REMEDIAL ACTION: mount DET file and rerun job.

MESSAGE: ERROR - NO VIFI PROVIDED
REMEDIAL ACTION: mount VIFI input file and rerun job.

MESSAGE: ERROR - SORT OPTIONS RECORD BLANK
REMEDIAL ACTION: flush job stream and have data entry code a SORT processing option for this job before attempting a rerun.

MESSAGE: ERROR - SORT SEQUENCE SAME AS INPUT SEQUENCE
REMEDIAL ACTION: no sort option is required for this job if this sequence is desired. Rerun job without SORT option.

WAQC090 - Late Monthly Operations Report

a. Function

This program will produce the Operations Report Violations Report sorted in a user-defined sequence using data from the Operations Report Violations File.

b. Inputs:

Operations Report Violations File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Operation Report Violations Report (WAQC.325)

Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

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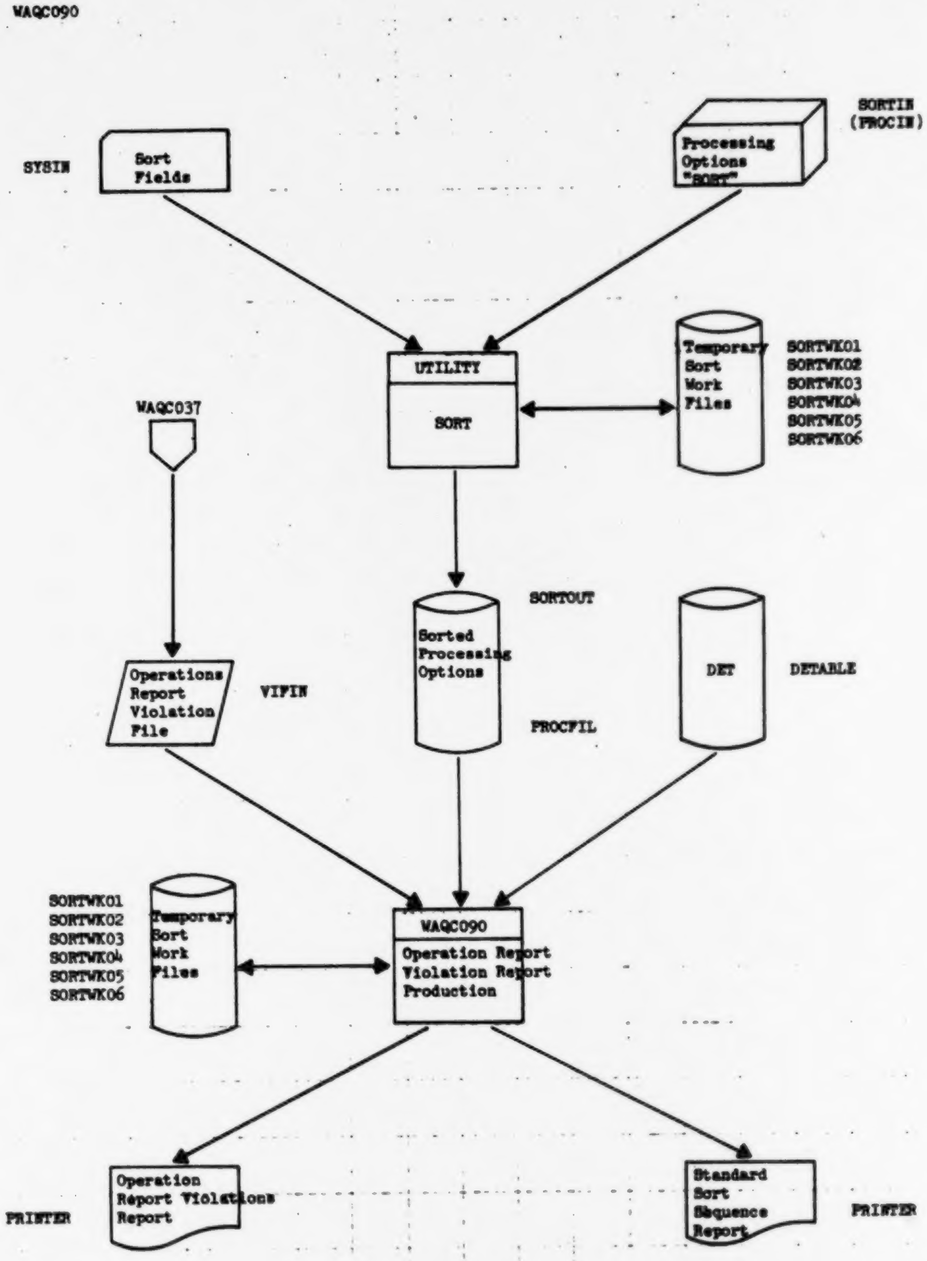
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Procedure ______ Drawn By ______


WAQC090
SYSIN
Sort Fields
SORTIN (PROCIN)
Processing Options "SORT"
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC037
SORTOUT
Sorted Processing Options
PROCFIL
DET
DETABLE
Operations Report Violation File
VIFIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC090
Operation Report Violation Report Production
PRINTER
Operation Report Violations Report
Standard Sort Sequence Report
PRINTER

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f. WAQC090 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - FIRST RECORD ON VIF NOT HEADER
REMEDIAL ACTION: Make sure the correct file has been mounted. If so, there is a probable program error or I/O error. Notify programmer.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: Program area not large enough to contain DET. Program must be changed to allow extra entries. Notify programmer.

MESSAGE: ERROR - NO DET FILE PROVIDED
REMEDIAL ACTION: Mount DET file and rerun job.

MESSAGE: ERROR- NO VIFI PROVIDED
REMEDIAL ACTION: Flush job stream and have data entry code a SORT processing option for this job before attempting a rerun.

MESSAGE: ERROR - SORT SEQUENCE SAME AS INPUT SEQUENCE
REMEDIAL ACTION: No sort option is required for this job if this sequence is desired. Rerun job without SORT option.

WAQC100 - Sample Analysis File (SAF) Selection

a. Function

This program will search the Sample Analysis File (SAF) and select specific records for the Summary of Chemical Analysis Report, the Summary of Radiological Analysis Report, the Summary of Bacteriological Analysis Report, and the Summary of Turbidity Analysis Report based upon user-defined selection criteria.

b. Inputs:

Sample Analysis File (SAF)

Code Value Table (CVT)

Data Element Table (DET)

Public Water Table (PWT)

c. Processing Options:

PROC (WAQC.115)

SEL1 (WAQC.116)

SEL2 (WAQC.117)

d. Outputs:

Chemical Analysis Select File

Radiological Analysis Select File

Bacteriological Analysis Select File

Turbidity Analysis Select File

Standard Selection Statistics Report (MSIS.309 and 312)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

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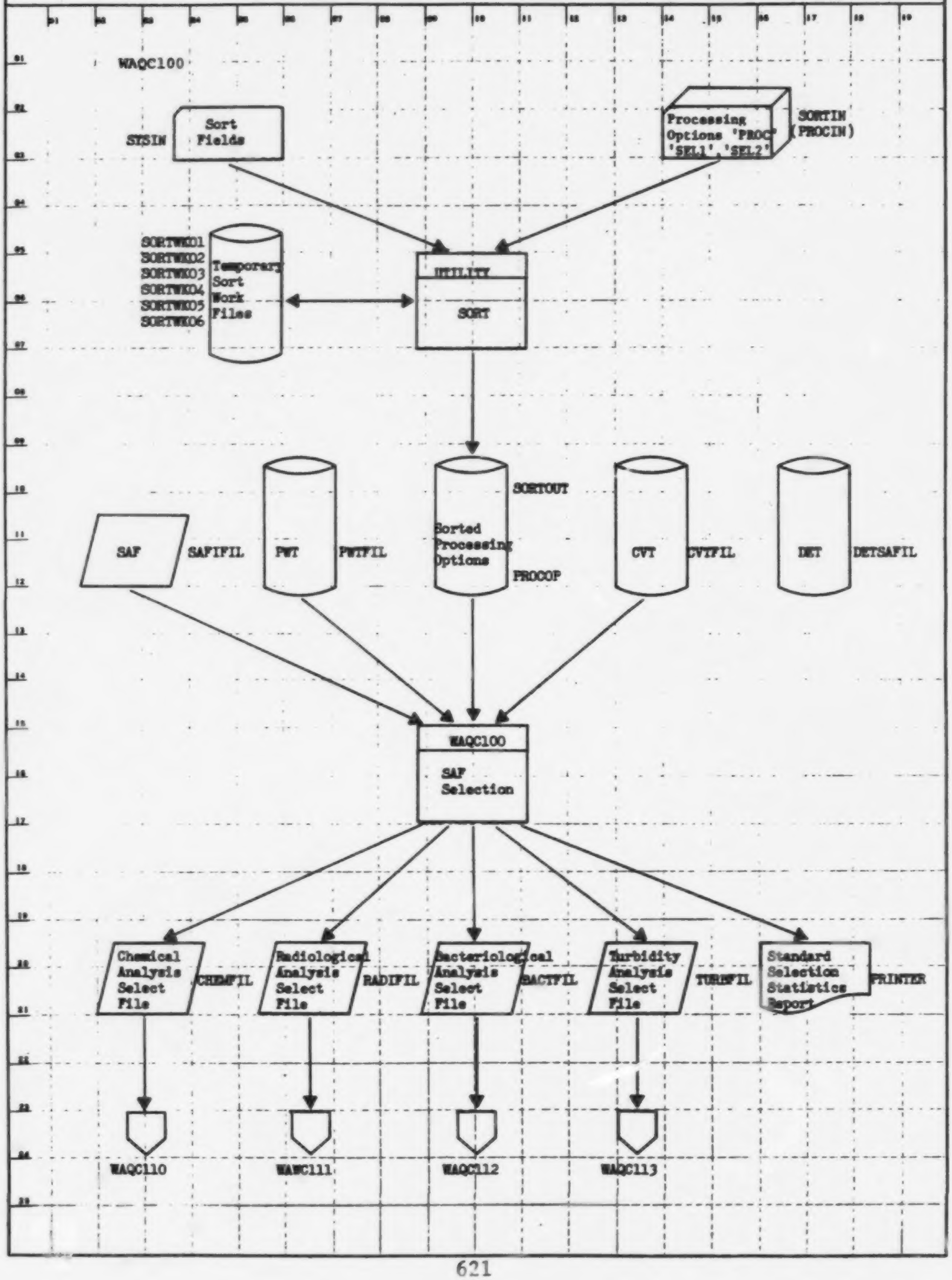

WAQC100
SYSIN
Sort Fields
Processing Options 'PROC' 'SEL1','SEL2'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
SAF
SAFIFIL
PWT
PWTFIL
Sorted Processing Options
PROCOP
CVT
CVTFIL
DET
DETSAFIL
WAQC100
SAF Selection
Chemical Analysis Select File
CHEMFIL
Radiological Analysis Select File
RADIFIL
Bacteriological Analysis Select File
BACTFIL
Turbidity Analysis Select File
TURBFIL
Standard Selection Statistics Report
PRINTER
WAQC110
WAQC111
WAQC112
WAQC113

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f. WAQC100 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages & Remedial Actions for PROC Records and SEL1 & SEL2 Records.

MESSAGE: ERROR - ALL GROUP-VALUES NEGATIVE IN PROC RECORD
REMEDIAL ACTION: return PROC option to data entry for correction. Rerun job after correction has been made.

MESSAGE: ERROR - SA DATA ELEMENT TABLE TOO LARGE OR MISSING
REMEDIAL ACTION: check to see if Sample Analysis File DET has been mounted. If not, mount it and rerun job. If it has been mounted, then the program will have to be changed to accommodate the extra DET entries. Notify programmer.

MESSAGE: ERROR - CVT TOO LARGE OR MISSING
REMEDIAL ACTION: check to see if SAF CVT has been mounted. If not, mount it and rerun job. If it has been mounted, then the program will have to be changed to accommodate the extra CVT entries. Notify programmer.

MESSAGE: ERROR - DECIMAL VALUE TOO LONG OR NOT NUMERIC
REMEDIAL ACTION: return SEL1 option to data entry for correction. Rerun job after correction has been made.

MESSAGE: ERROR - VALUE FIELD IN THE SEL1 NOT NUMERIC
REMEDIAL ACTION: check for keypunch error. If not, return to data entry for correction. Rerun job after correction has been made.

WAQC110 - Chemical Analysis Summary Report

a. Function

This program will produce the Summary of Chemical Analysis Report sorted in a user-defined sequence using data from the Chemical Analysis Select File.

b. Inputs:

Chemical Analysis Select File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Summary of Chemical Analysis Report (WAQC.321)

Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

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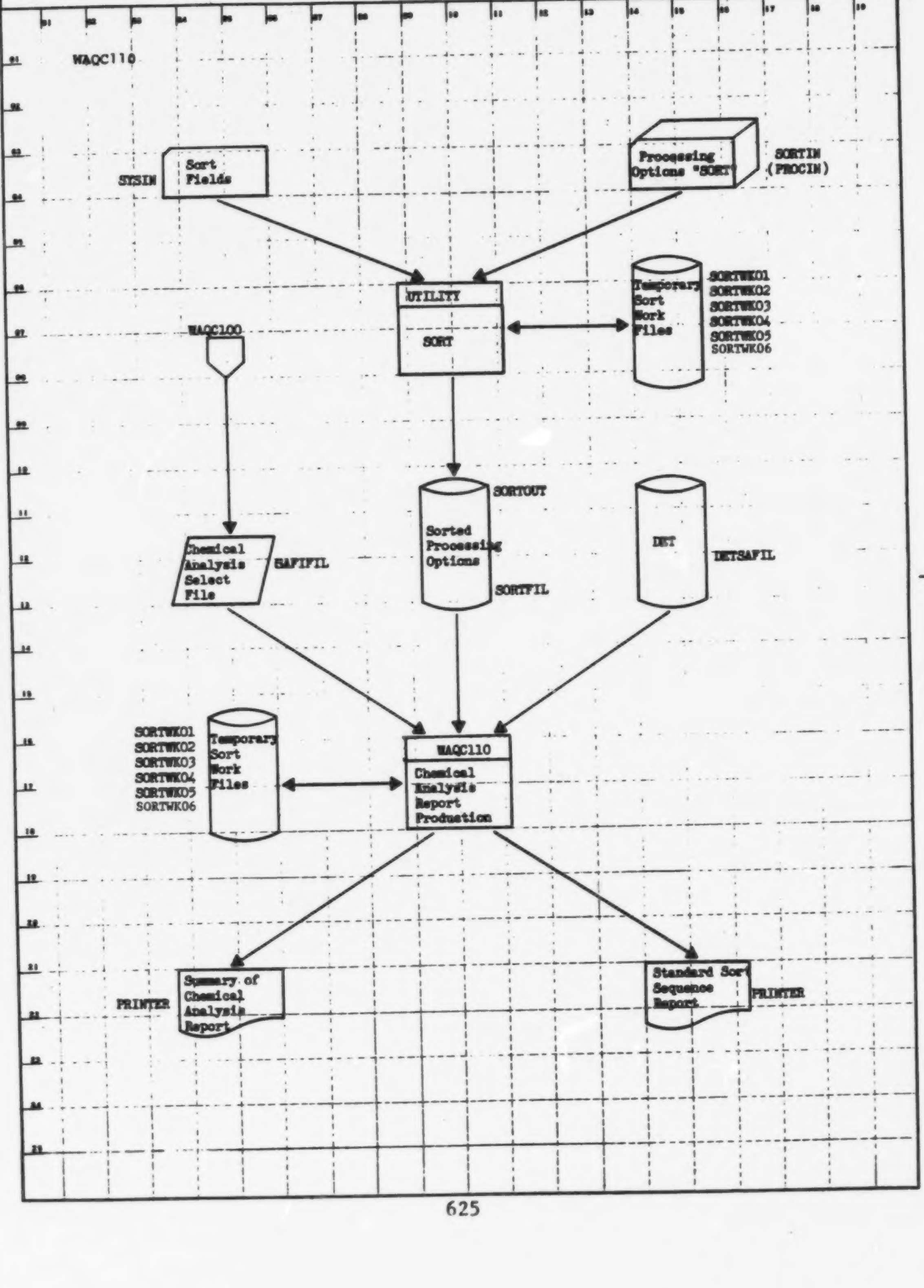
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC110
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC100
SORTOUT
Chemical Analysis Select File
EAFIFIL
Sorted Processing Options
SORTFIL
DET
DETSAFIL
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC110
Chemical Analysis Report Production
PRINTER
Summary of Chemical Analysis Report
Standard Sort Sequence Report
PRINTER

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f. WAQC110 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST ENTRY ON SORT OPTIONS RECORD MISSING
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

WAQC111 - Radiological Analysis Summary Report

a. Function

This program will produce the Summary of Radiological Analysis Report sorted in a user-defined sequence using data from the Radiological Analysis Select File.

b. Inputs:

Radiological Analysis Select File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Summary of Radiological Analysis Report (WAQC.322)

Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

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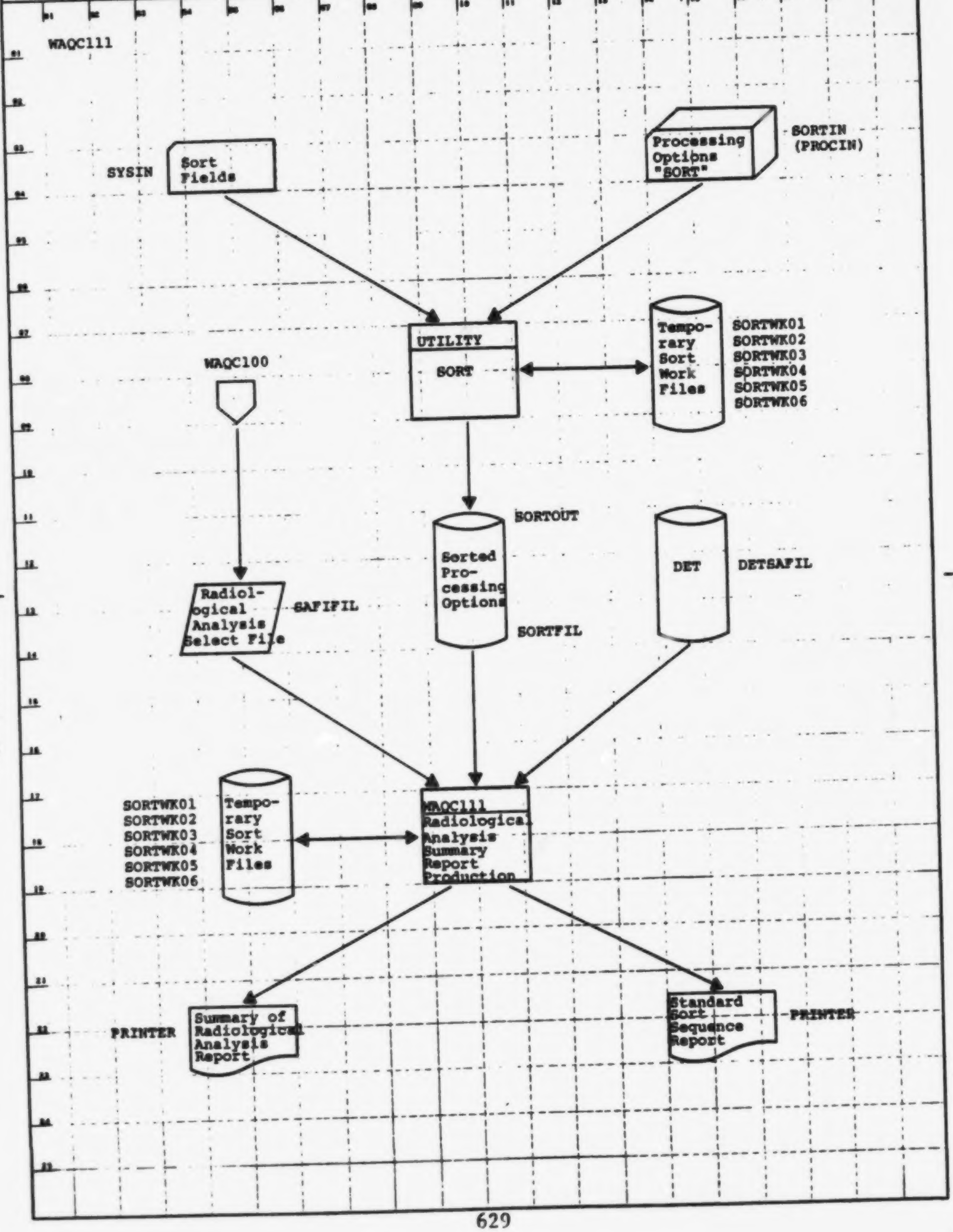
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC111
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Tempo-rary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC100
SORTOUT
Sorted Pro-cessing Options
SORTFIL
DET
DETSAFIL
Radiol-ogical Analysis Select File
SAFIFIL
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Tempo-rary Sort Work Files
WAQC111
Radiological Analysis Summary Report Production
PRINTER
Summary of Radiological Analysis Report
Standard Sort Sequence Report
PRINTER

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f. WAQC111 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST ENTRY ON SORT OPTIONS RECORD MISSING
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST RECORD ON FILE NOT HEADER
REMEDIAL ACTION: either the incorrect file was mounted to process this run or the output file from WAQC100 was in error. Make sure that the correct file was mounted.

MESSAGE: ERROR - SAFI FILE NOT PROVIDED
REMEDIAL ACTION: mount SAF and rerun job.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - DET FILE NOT PROVIDED
REMEDIAL ACTION: mount DET file and rerun job.

WAQC112 - Bacteriological Analysis Summary Report

a. Function

This program will produce the Summary of Bacteriological Analysis Report sorted in a user-defined sequence using data from the Bacteriological Analysis Select File.

b. Inputs:

Bacteriological Analysis Select File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Summary of Bacteriological Analysis Report (WAQC.323)

Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

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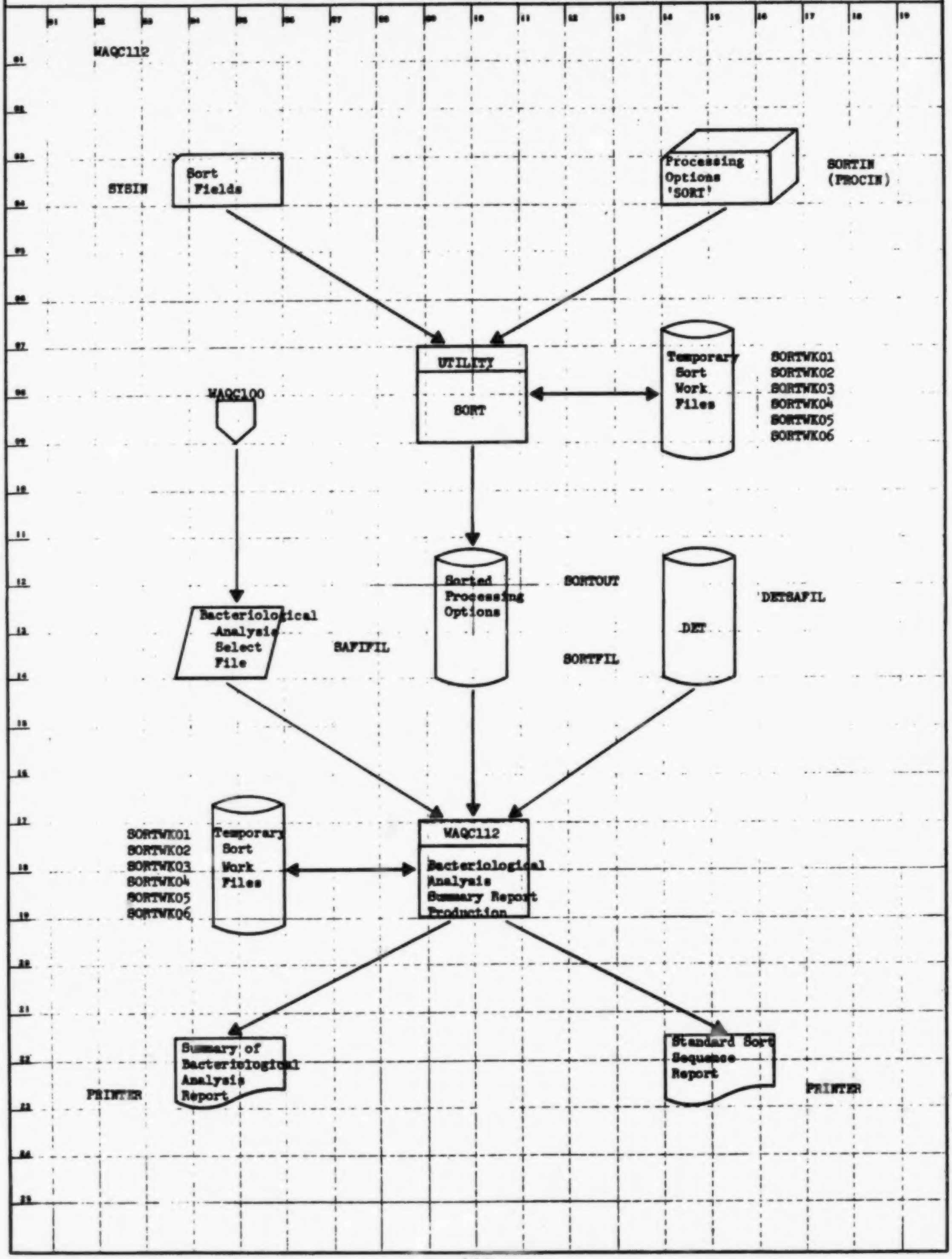
WAQC112
SYSIN
Sort Fields
Processing Options 'SORT'
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC100
Bacteriological Analysis Select File
SAFIFIL
Sorted Processing Options
SORTOUT
SORTFIL
DET
DETSAFIL
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC112
Bacteriological Analysis Summary Report Production
Summary of Bacteriological Analysis Report
PRINTER
Standard Sort Sequence Report
PRINTER

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f. WAQC112 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST ENTRY ON SORT OPTIONS RECORD MISSING
REMEDIAL ACTION: check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST RECORD ON FILE NOT HEADER
REMEDIAL ACTION: either the incorrect file was mounted to process this run or the output file from WAQC100 was in error. Make sure that the correct file was mounted.

MESSAGE: ERROR - SAFI FILE NOT PROVIDED
REMEDIAL ACTION: mount SAF and rerun job.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - DET FILE NOT PROVIDED
REMEDIAL ACTION: mount DET file and rerun job.

WAQC113 - Turbidity Analysis Summary Report

a. Function

This program will produce the Summary of Turbidity Analysis Report sorted in a user-defined sequence using data from the Turbidity Analysis Select File.

b. Inputs:

Turbidity Analysis Select File

Data Element Table (DET)

c. Processing Options:

SORT (WAQC.113)

d. Outputs:

Summary of Turbidity Analysis Report (WAQC.324)

Standard Sort Sequence Report (MSIS.309 and 311)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

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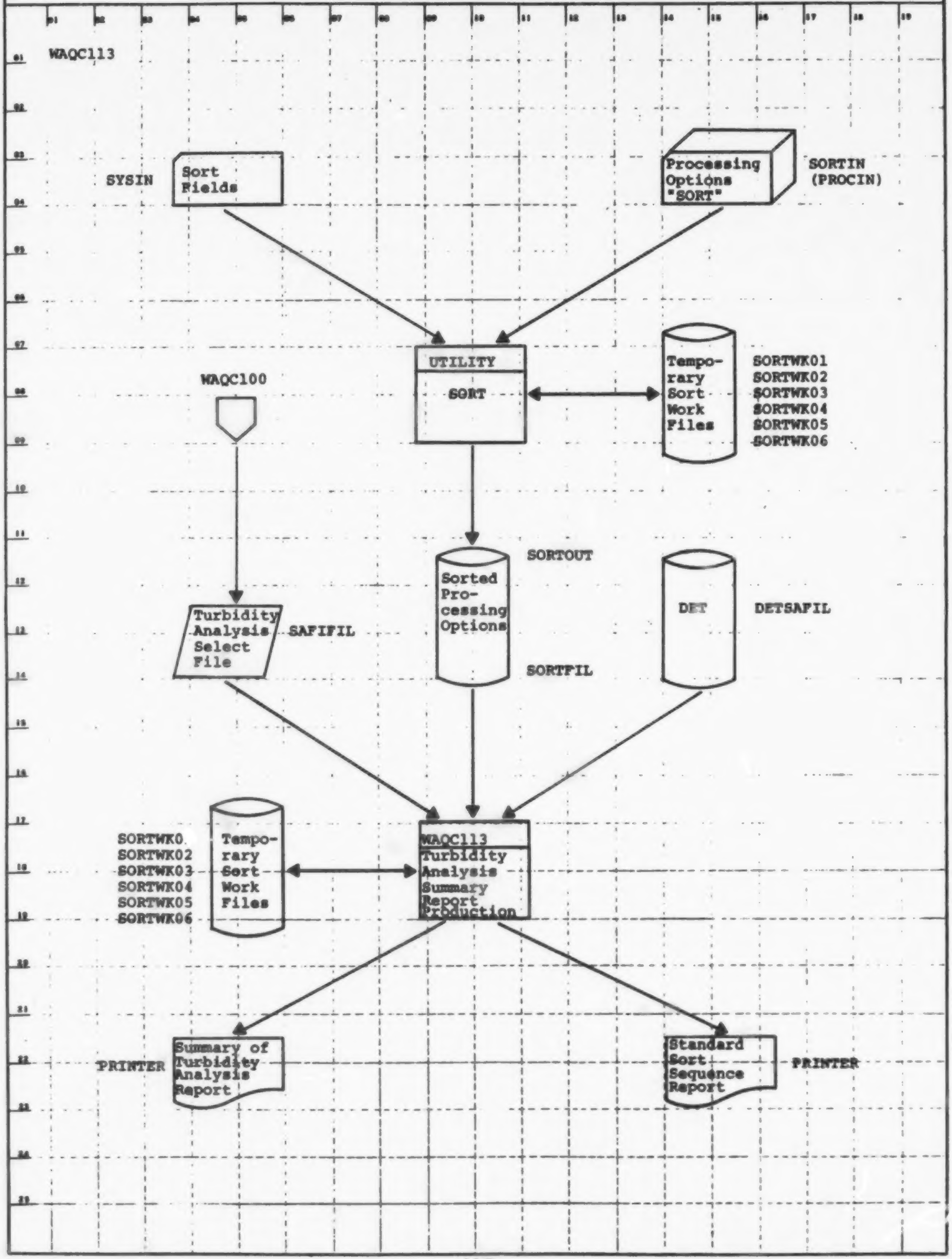
WAQC113
SYSIN
Sort Fields
Processing Options "SORT"
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
WAQC100
SORTOUT
Sorted Processing Options
SORTFIL
DET
DETSAFIL
Turbidity Analysis Select File
SAFIFIL
SORTWK0
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC113
Turbidity Analysis Summary Report Production
PRINTER
Summary of Turbidity Analysis Report
Standard Sort Sequence Report
PRINTER

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f. WAQC113 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for SORT Records.

MESSAGE: ERROR - RECORD TYPE NOT SORT
REMEDIAL ACTION: Check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST ENTRY ON SORT OPTIONS RECORD MISSING
REMEDIAL ACTION: Check for keypunch errors, if none, return options to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIRST RECORD ON FILE NOT HEADER
REMEDIAL ACTION: Either the incorrect file was mounted to process this run or the output file from WAQC100 was in error. Make sure that the correct file was mounted.

MESSAGE: ERROR - SAFI FILE NOT PROVIDED
REMEDIAL ACTION: Mount SAF and rerun job.

MESSAGE: ERROR - DET EXCEEDS MAXIMUM ENTRIES
REMEDIAL ACTION: Notify programming that the DET has exceeded program capacity and program must be changed to accommodate larger DET.

MESSAGE: ERROR - DET FILE NOT PROVIDED
REMEDIAL ACTION: Mount DET file and rerun job.

WAQC120 - Violations File (VIF) Data Entry and Update

a. Function

This program will edit the input transactions and update the Violations File (VIF)

b. Inputs:

Violations File (VIF)

VIF Manual Input Transactions (WAQC.119 & 120)

VIF Compliance Input Transactions (WAQC.119 and 120)

Public Water Table (PWT)

Laboratory Table (LBT)

Code Value Table (CVT)

c. Processing Options:

PROC (WAQC.118)

d. Outputs:

Violations File (VIF)

Standard History File (SHF) Transactions

Standard Error File (SEF)

Standard Update Statistics Report (MSIS.300 and 309)

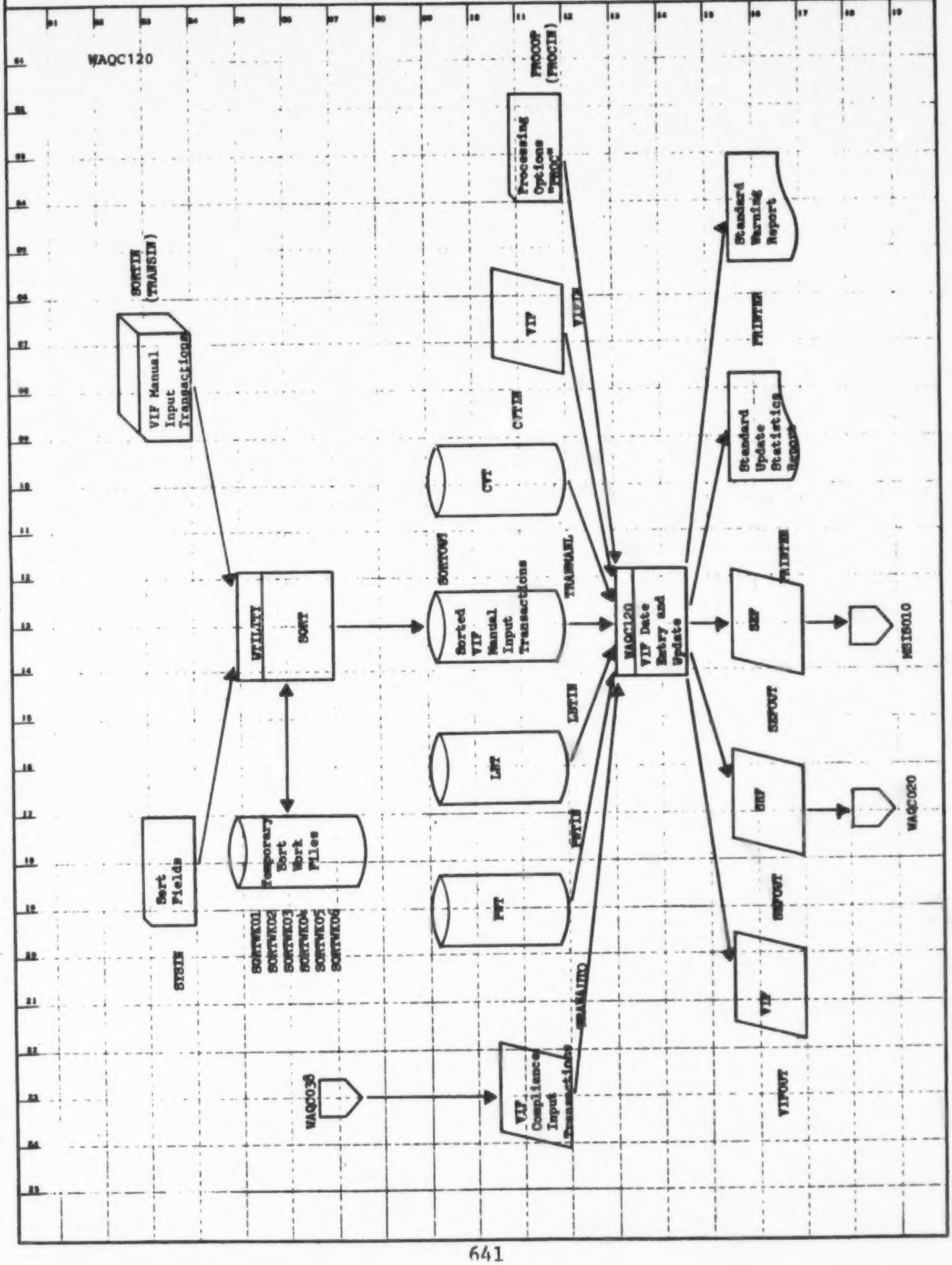
Standard Warnings Report (MSIS.310)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC120
PROCOP (PROCIN)
Processing Options "PROC"
SORTIN (TRANSIN)
VIF Manual Input Transactions
VIF
VIFIN
CVTIN
CVT
Standard Warning Report
PRINTER
Standard Update Statistics Report
PRINTER
SORTOUT
Sorted VIF Manual Input Transactions
TRANMAN
UTILITY SORT
WAQC120 VIF Date Entry and Update
EHP
MSIE010
LSTIN
LST
SHPOUT
EHP
WAQC020
PMTIN
PMT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
EHPOUT
Sort Fields
SYSIN
TRANAUTO
VIF Compliance Input Transactions
WAQC030
VIF
VIFOUT

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f. WAQC120 - Error Messages and Remedial Actions

MESSAGE: ERROR - PROC TYPE NOT PROC
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

WAQC125 - Violations File (VIF) Selection

a. Function

This program will search the Violations File (VIF) and select specific records for producing the Compliance Summary Report based upon user-defined selection criteria.

b. Inputs:

Violations File (VIF)

Data Element Table (DET)

Public Water Table (PWT)

c. Processing Options:

PROC (WAQC.111)

SEL1 (WAQC.116)

SEL2 (WAQC.117)

d. Outputs:

Compliance Summary Report (WAQC.320)

Standard Selection Statistics Report (MSIS.312 and 309)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

Procedure ____________ Drawn By ____________

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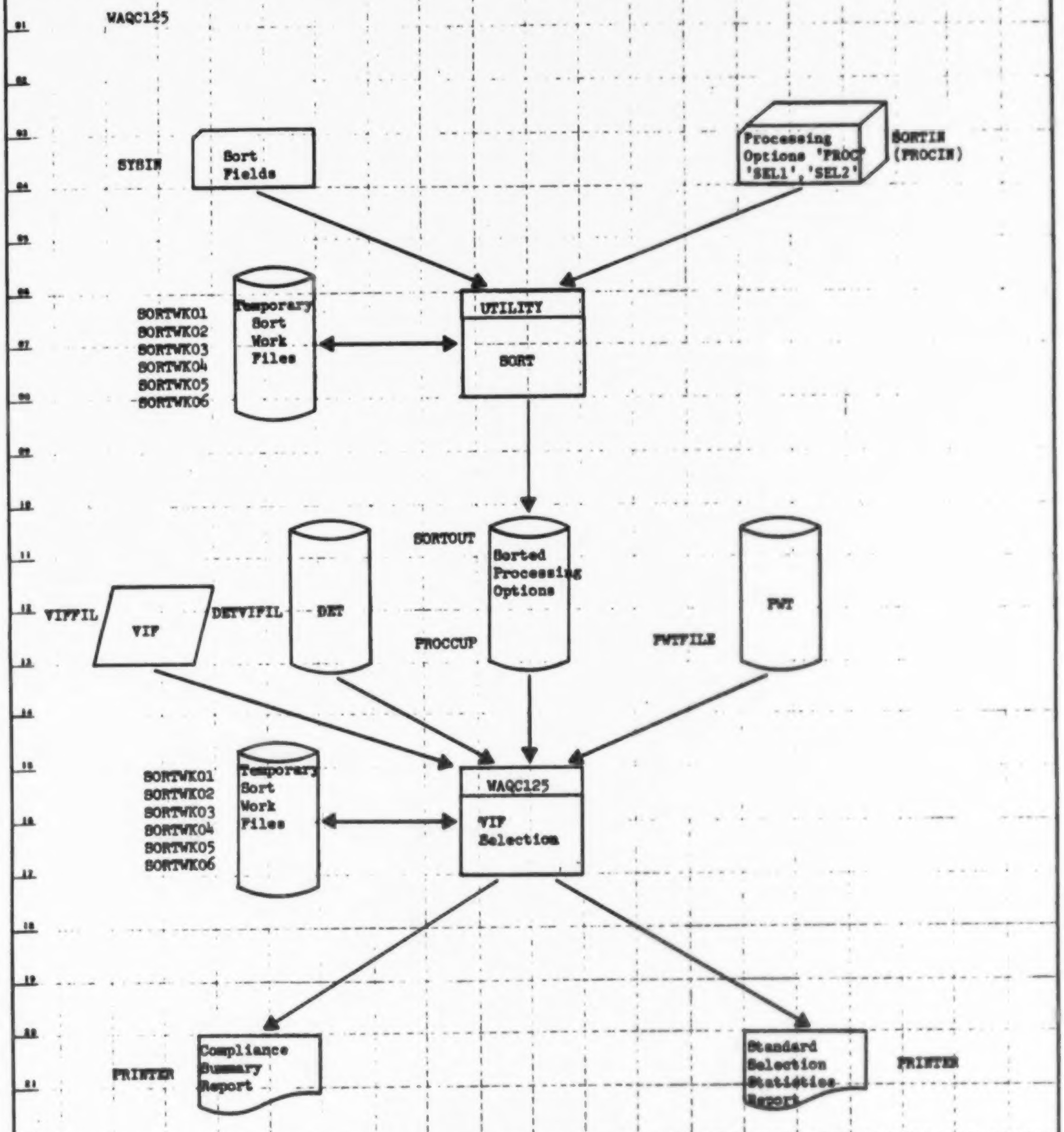
WAQC125
SYSIN
Sort Fields
Processing Options 'PROC' 'SEL1','SEL2'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Processing Options
PROCCUP
VIPFIL
VIP
DETVIPIL
DET
PWTFILE
PWT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
WAQC125
VIP Selection
PRINTER
Compliance Summary Report
Standard Selection Statistics Report
PRINTER

f. WAQC125 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records and SEL1 and SEL2 Records.

MESSAGE: ERROR - NO PROC RECORDS WERE SUPPLIED

REMEDIAL ACTION: Obtain processing options from data entry and rerun job.

MESSAGE: ERROR - VI DATA ELEMENT TABLE TOO LARGE OR MISSING

REMEDIAL ACTION: If DET was not mounted, mount DET and rerun job. If DET was too large, notify programming that the DET has exceeded program capacity and that the program must be changed to accommodate a larger DET.

MESSAGE: ERROR - DECIMAL VALUE TOO LONG OR NOT NUMERIC

REMEDIAL ACTION: Check for keypunch error, if none, return to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - FIELD IN THE SEL1 NOT NUMERIC

REMEDIAL ACTION: Check for keypunch error, if none, return the option to data entry for corrections. Obtain new options and rerun job.

WAQC130 - Sample Scheduling

a. Functions

This program will schedule the Public Water Systems (PWS's) for sampling by building files containing records used to produce Analysis Input Form Turnaround Documents, Monthly Operations Report Update Forms, and Bacteriological Mailing Labels.

b. Inputs:

Code Value Table (CVT)

Public Water File (PWF)

Compliance Status File (CSF)

Regulations File (RGF)

Scheduling Output Options (WAQC.124)

c. Processing Options:

PROC (WAQC.114)

d. Outputs:

Contaminant Schedule File

Operations Report/Mailing Label File

Compliance Status File (CSF)

Standard Error Report (MSIS.309)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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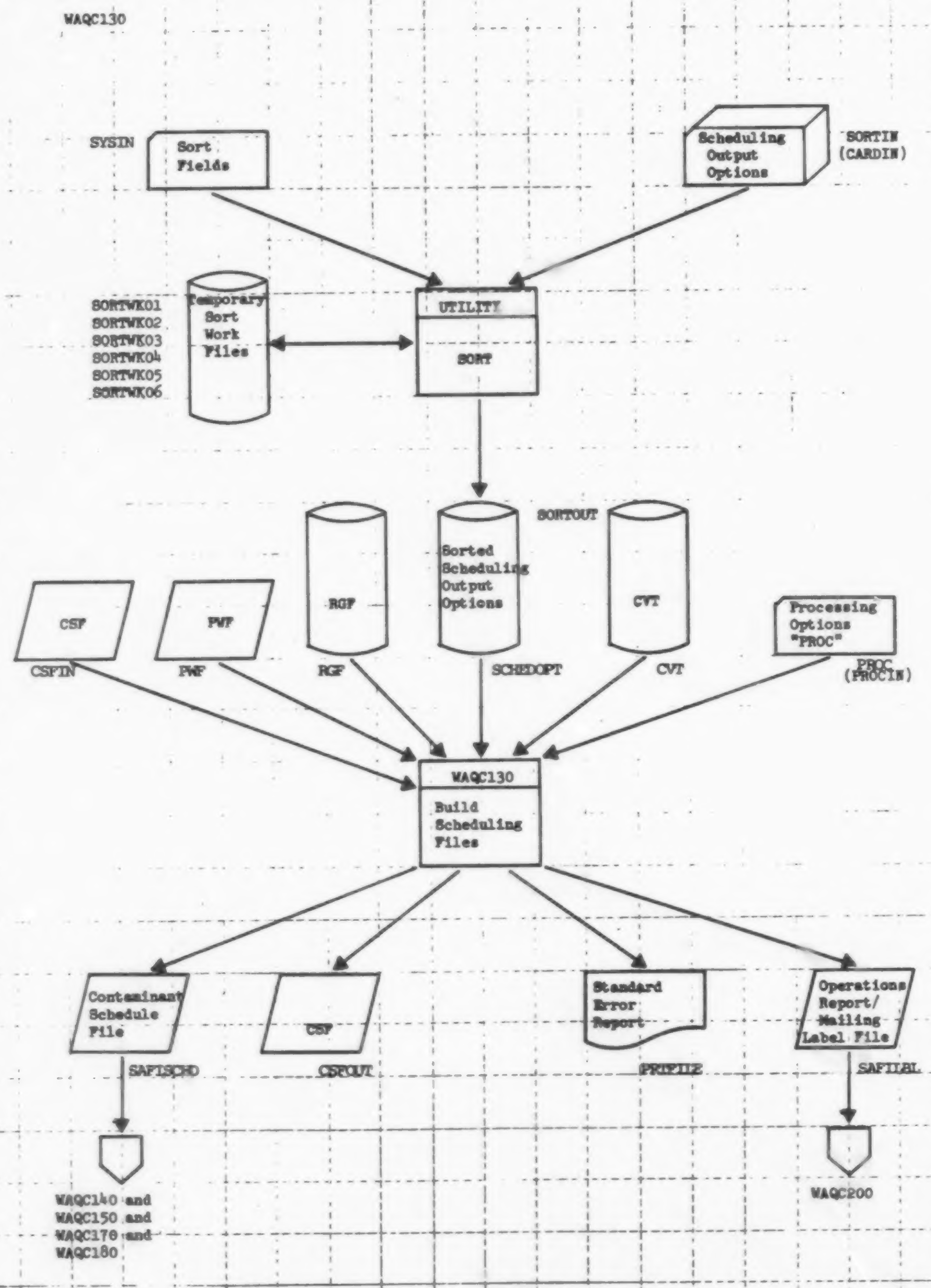
WAQC130
SYSIN
Sort Fields
Scheduling Output Options
SORTIN (CARDIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
RGF
Sorted Scheduling Output Options
CVT
CSF
PWF
Processing Options "PROC"
CSFIN
PWF
RGF
SCHEDOPT
CVT
PROC (PROCIN)
WAQC130
Build Scheduling Files
Contaminant Schedule File
CSF
Standard Error Report
Operations Report/ Mailing Label File
SAFISCHD
CSFOUT
PRTFILE
SAFILBL
WAQC140 and
WAQC150 and
WAQC170 and
WAQC180
WAQC200

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f. WAQC130 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records.

MESSAGE: ERROR - PROC RECORD CONTAINS INVALID ERROR FILE CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - PROC RECORD CONTAINS INVALID PRINT CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for corrections. Obtain new options and rerun job.

MESSAGE: ERROR - PROC CONTAINS INVALID RERUN OPTION CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain options and rerun job.

MESSAGE: ERROR - PROC CONTAINS INVALID OPERATION REPORT CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new options and rerun job.

MESSAGE: ERROR - NO RECORDS ON CODE VALUE TABLE (CVT)
REMEDIAL ACTION: Make sure that CVT was mounted. If not, mount CVT and rerun job. If it was mounted, CVT was not loaded initially. Notify programming that the CVT must be built using program MSIS030.

MESSAGE: ERROR - CVT EXCEEDS 50 RECORDS
REMEDIAL ACTION: Notify programming that the CVT has exceeded program capacity and the program must be changed to accommodate a larger CVT.

MESSAGE: ERROR - NO RECORDS ON REGS FILE (RGF)
REMEDIAL ACTION: REGS010 must be run to create RGF. Make sure that the correct file was mounted.

MESSAGE: ERROR - NO RECORDS ON SCHEDULING OPTION FILE
REMEDIAL ACTION: Obtain scheduling options from data entry and rerun job.

MESSAGE: ERROR - NO RECORDS ON THE PUBLIC WATER FILE
REMEDIAL ACTION: Make sure that the correct file was mounted. PWF must contain some records or you have the wrong field.

MESSAGE: ERROR - INVALID PWS ID
REMEDIAL ACTION: None. This is to notify the user that either the PWS ID has an error or it is actually not on the PWF and must be entered before this transaction can be processed.

MESSAGE: ERROR - INVALID BACTERIOLOGICAL REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID TURBIDITY REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID CHEMICAL REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID NATURAL RADIOLOGICAL REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID MANMADE RADIOLOGICAL REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID LABEL REQUEST CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID LABEL NUMBER
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID RESCHEDULE CHEMICAL CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - INVALID RESCHEDULE RADIOLOGICAL CODE
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - ALL REQUEST CODES ARE N
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - LABEL OPTION DOES NOT MATCH LABEL NUMBER
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun the job.

MESSAGE: ERROR - REGS EXCEED TABLE SIZE
REMEDIAL ACTION: Notify programming that the REGS table entries exceeds program capacity and program must be changed to accommodate larger REGS table.

MESSAGE: PWS-ID of ________ ON SCHEDULING OUTPUT OPTION CARD NOT ON PWF

REMEDIAL ACTION: None. This is used to notify the user that either the PWS-ID has been entered in error, or it actually is not on the PWF and must be entered before this transaction can be processed.

MESSAGE: PWS-ID INACTIVE - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the PWS is flagged as inactive and will therefore not require scheduling.

MESSAGE: PWS CONSECUTIVE, NOT REQD TO MONITOR WATER - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a consecutive water source which is not required to monitor its water quality and therefore not required in scheduling.

MESSAGE: PWS NOT REGULATED BY STATE OR FED REGS - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is not regulated by State or Federal Regulations and is therefore not required to be scheduled.

MESSAGE: PWS _______ BEGIN DATE MM/DD/YY GREATER THAN PROC DATE - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS began operation after the date used to determine scheduling and therefore is not required to be scheduled.

MESSAGE: PWS _______ GROUND SOURCE ONLY - TURBIDITY SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a ground water source for which Turbidity scheduling is not required.

MESSAGE: PWS _______ ALREADY SCHEDULED - TURBIDITY SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS has already been scheduled for turbidity testing.

MESSAGE: PWS _______ NO COMPLIANCE RUN YET - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS has not yet been checked for compliance and is therefore not required to be scheduled.

MESSAGE: PWS _______ IS COMMUNITY/GROUND WATER SOURCE CHEMICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a community, ground water source and is therefore not required to be scheduled for chemical testing.

MESSAGE: PWS _______ IS NON-COMMUNITY/GROUND WATER SOURCE - CHEMICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a non-community, ground water source and is therefore not required to be scheduled for chemical testing.

MESSAGE: PWS _______ IS COMMUNITY/SURFACE WATER SOURCE - CHEMICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a community, surface water source and is therefore not required to be scheduled for chemical testing.

MESSAGE: PWS _______ IS NON-COMMUNITY/SURFACE WATER SOURCE - CHEMICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is a non-community, surface water source and is therefore not required to be scheduled for chemical testing.

MESSAGE: PWS _______ ALREADY SCHEDULED - CHEMICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS has already been scheduled for chemical testing.

MESSAGE: PWS _______ ALREADY SCHEDULED - BACTERIOLOGICAL SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS has already been scheduled for chemical testing.

MESSAGE: REGULATIONS RECORD MISSING - STOP PROCESS

REMEDIAL ACTION: Notify programming that the missing regulation must be coded and entered along with the rest of the Federal and State Regulations using program REGS010 before any more processing can be done for scheduling.

MESSAGE: PWS _______ NOT REQUIRED FOR NATURAL RADS - SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is not required to have natural radiological testing.

MESSAGE: PWS _______ IS COMMUNITY AND REG FOR NONCOM ONLY - NATURAL RADS SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is regulated under non-community standards and is therefore not required to have natural radiological testing.

MESSAGE: PWS _______ IS NON-COMMUNITY AND REGS FOR COM ONLY - NATURAL RAD SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is regulated under community standards and is therefore not required to have natural radiological testing.

MESSAGE: PWS _______ ALREADY SCHEDULED - NATURAL RADIONUCLIDE SCHEDULING INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS has already been scheduled for testing.

MESSAGE: PWS _______ NOT REQUIRED TO SUBMIT OPERATIONS REPORT - SCHEDULING REQUEST INVALID

REMEDIAL ACTION: None. This is used to notify the user that the requested PWS is not required to submit an Operations Report and that this request is therefore invalid.

WAQC140 - Chemical and Radiological Scheduling Report

a. Function

This program will produce the Chemical/Radiological Scheduling Report which contains a list of all chemical and radiological samples scheduled for sampling and analysis by a Public Water System (PWS).

b. Inputs:

Contaminant Schedule File

c. Processing Options:

None

d. Outputs:

Chemical/Radiological Scheduling Report (WAQC.319)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___
Procedure ______ Drawn By ______

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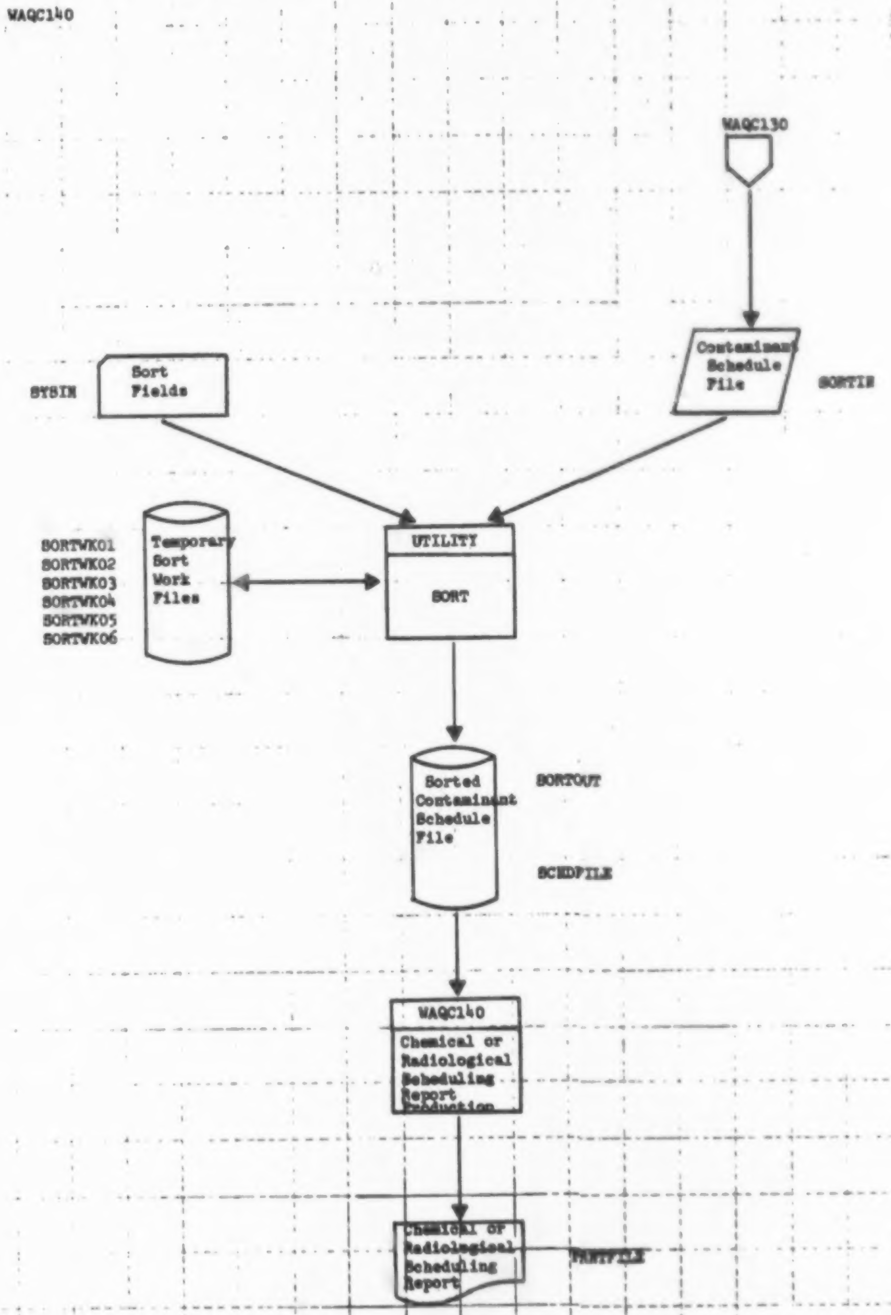
WAQC140
WAQC130
Contaminant Schedule File
SORTIN
SYSIN
Sort Fields
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Contaminant Schedule File
SORTOUT
SCHDFILE
WAQC140
Chemical or Radiological Scheduling Report Production
Chemical or Radiological Scheduling Report
PRTFILE

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f. WAQC140 - Error Messages and Remedial Actions

None.

WAQC150 - Chemical or Radiological Analysis Input Form

a. Function

This program will produce the Chemical or Radiological Analysis Input Form to be used by the Public Water Systems (PWS's) to report the results of Chemical or Radiological sample analyses to the state. These forms are turnaround documents used as input to the Water Quality Compliance Subsystem (WAQC).

b. Inputs:

Contaminant Schedule File

c. Processing Options:

RESTART (WAQC.125)

d. Outputs:

Chemical or Radiological Analysis Report Form (WAQC.400)

Standard Error Report (WAQC.309)

e. I/O Chart

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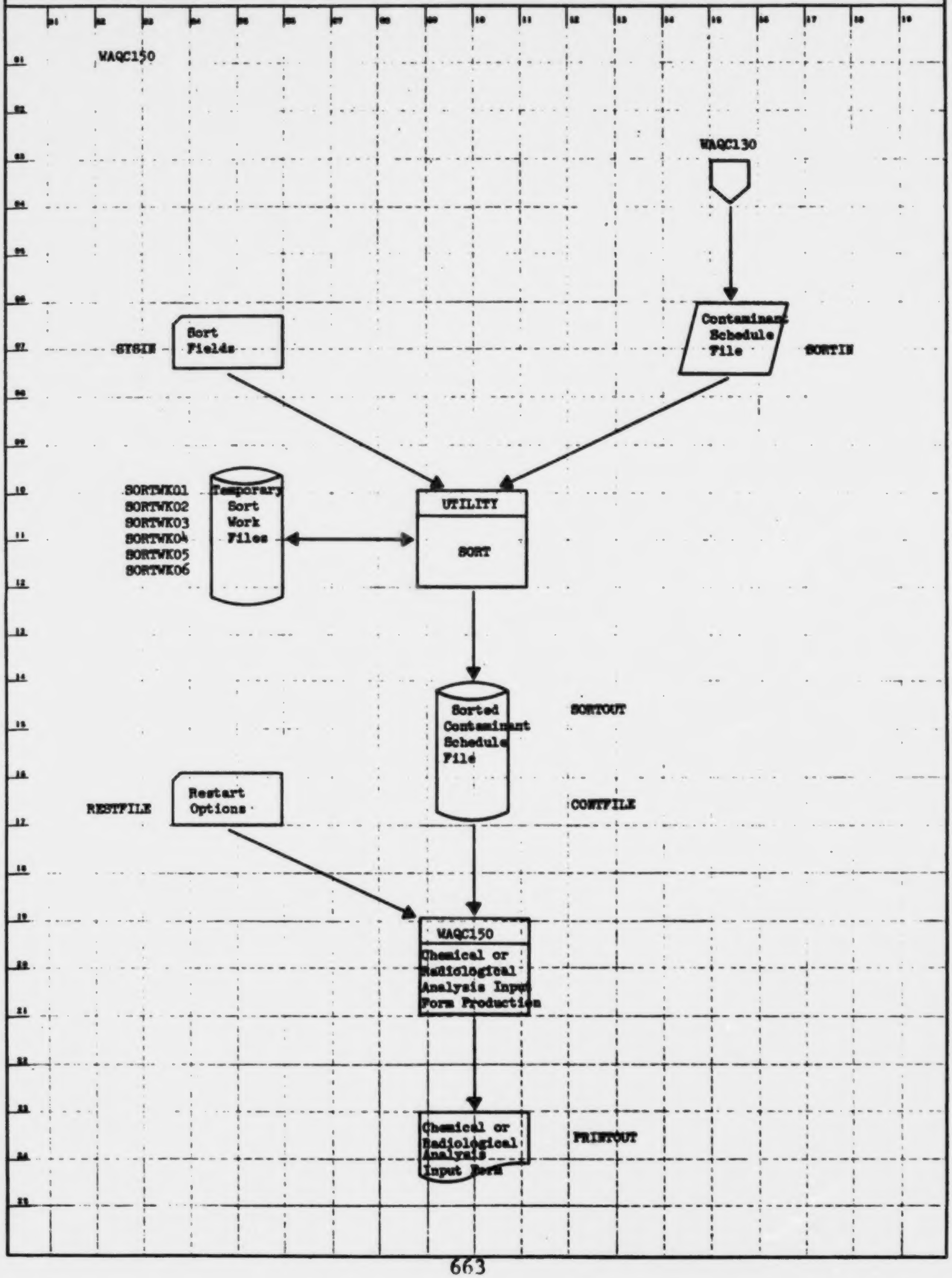
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ________ Page ____ of ____
Procedure ____________ Drawn By ____________


WAQC150
WAQC130
SYSIN
Sort Fields
Contaminant Schedule File
SORTIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Contaminant Schedule File
SORTOUT
CONTFILE
RESTFILE
Restart Options
WAQC150
Chemical or Radiological Analysis Input Form Production
Chemical or Radiological Analysis Input Form
PRINTOUT

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f. WAQC150 - Error Messages and Remedial Actions

Any error messages that appear for this program can be found in Standard Error Messages and Remedial Actions for RESTART Records.

WAQC170 - Turbidity or Bacteriological Analysis Input Form

a. Functions

This program will produce the Bacteriological or Turbidity Analysis Input Form to be used by the Public Water Systems (PWS's) to report a list of results of Bacteriological or Turbidity sample analyses to the state. These forms are turnaround documents used as input to the Water Quality Compliance Subsystem (WAQC).

b. Inputs:

Contaminant Schedule File

c. Processing Options:

RESTART (WAQC.125)

d. Outputs:

Bacteriological or Turbidity Analysis Input Form (WAQC.401)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

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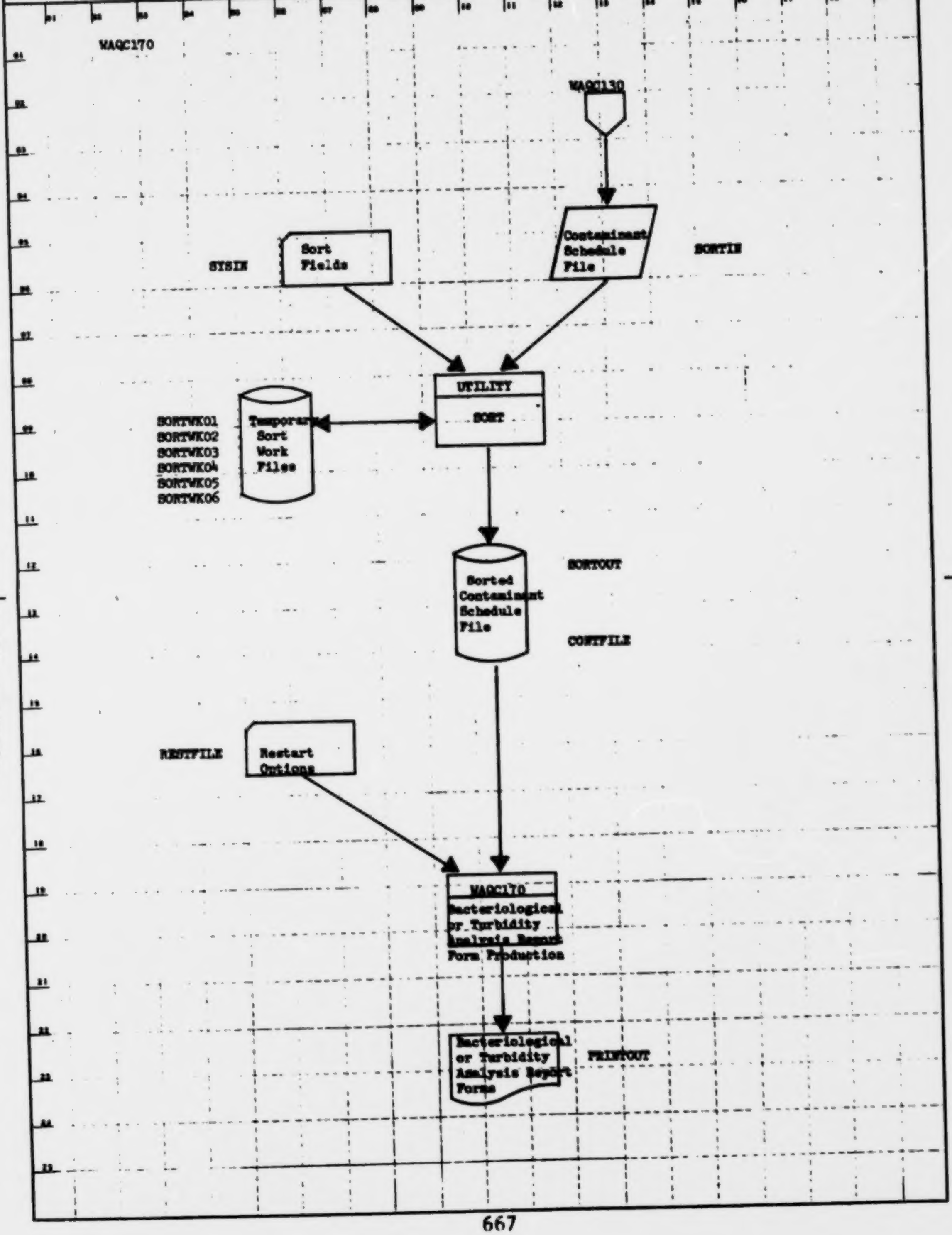

WAQC170
WAQC130
SYSIN
Sort Fields
Contaminant Schedule File
SORTIN
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Sorted Contaminant Schedule File
SORTOUT
CONTFILE
RESTFILE
Restart Options
WAQC170
Bacteriological or Turbidity Analysis Report Form Production
Bacteriological or Turbidity Analysis Report Forms
PRINTOUT

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WAQC180 - Bacteriological or Turbidity Summary Analysis Input Form

a. Functions

This program will produce the Bacteriological or Turbidity Summary Analysis Input Form to be used by the Public Water Systems (PWS's) to report summaries of results of Bacteriological or Turbidity sample analyses to the state. These forms are turnaround documents used as input to the Water Quality Compliance Subsystem (WAQC).

b. Inputs:

Contaminant Schedule File

c. Processing Options:

RESTART (WAQC.125)

d. Outputs:

Bacteriological or Turbidity Summary Analysis Input Form (WAQC.402)

f. WAQC170 - Error Messages and Remedial Actions

Any error messages that appear for this program can be found in Standard Error Messages and Remedial Actions for RESTART Records.

e. I/O Chart

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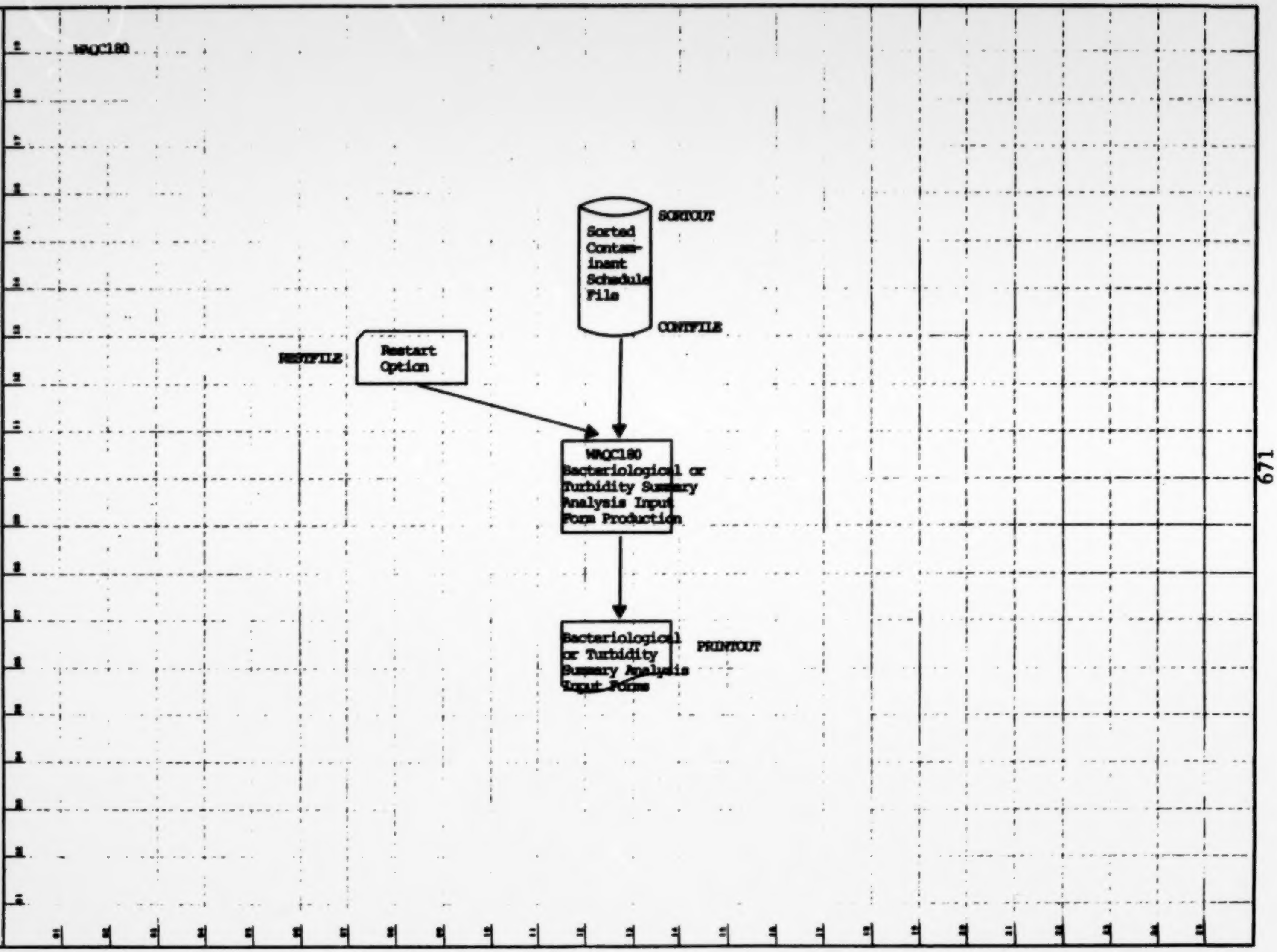
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


WAQC180
Sorted Contam-inant Schedule File
SORTOUT
CONTFILE
RESTFILE
Restart Option
WAQC180 Bacteriological or Turbidity Summary Analysis Input Form Production
Bacteriological or Turbidity Summary Analysis Input Forms
PRINTOUT

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f. WAQC180 - Error Messages and Remedial Actions

Any error messages that appear for this program can be found in Standard Error Messages and Remedial Actions for RESTART Records.

WAQC200 - Mailing Labels and Operations Report Form Production

a. Functions

This program will produce mailing labels for mailing material to local governments, cities, consultants and other addressee types to be included on a mailing distribution list. A Monthly Operations Report Update Form to be used for updating the Monthly Operations Reporting Information on the Public Water File PWF) is also produced for each Public Water System (PWS) scheduled.

b. Inputs:

Operations Report/Mailing Label File

c. Processing Options:

None

d. Outputs:

Mailing Labels (WAQC.329)

Monthly Operations Report Update Form (WAQC.330)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Drawn By ______

Procedure ______

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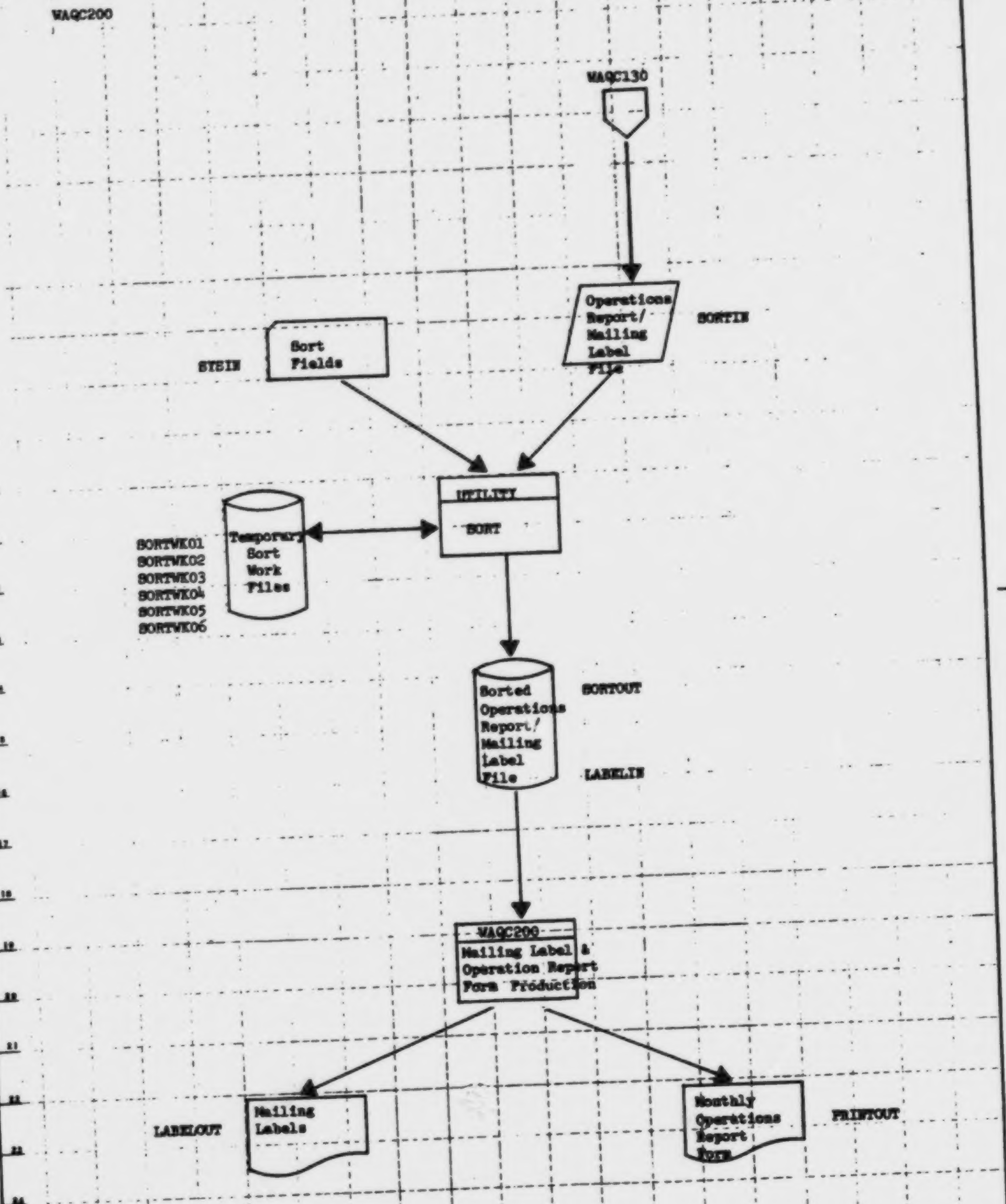
WAQC200
WAQC130
Operations Report/ Mailing Label File
SORTIN
Sort Fields
SYSIN
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Sorted Operations Report/ Mailing Label File
SORTOUT
LABELIN
WAQC200
Mailing Label & Operation Report Form Production
LABELOUT
Mailing Labels
Monthly Operations Report Form
PRINTOUT

f. WAQC200 - Error Messages and Remedial Actions

None.

WAQC210 - Laboratory Table (LBT) Creation

a. Function

This program will create the Laboratory Table (LBT) and produce the Laboratory Table Report.

b. Inputs:

Laboratory Table Transactions (WAQC.101 and 102)

Code Value Table (CVT)

c. Processing Options:

PROC (WAQC.100)

d. Outputs:

Laboratory Table (LBT)

Standard Error File (SEF)

Laboratory Table Report (WAQC.300)

e. I/O Chart

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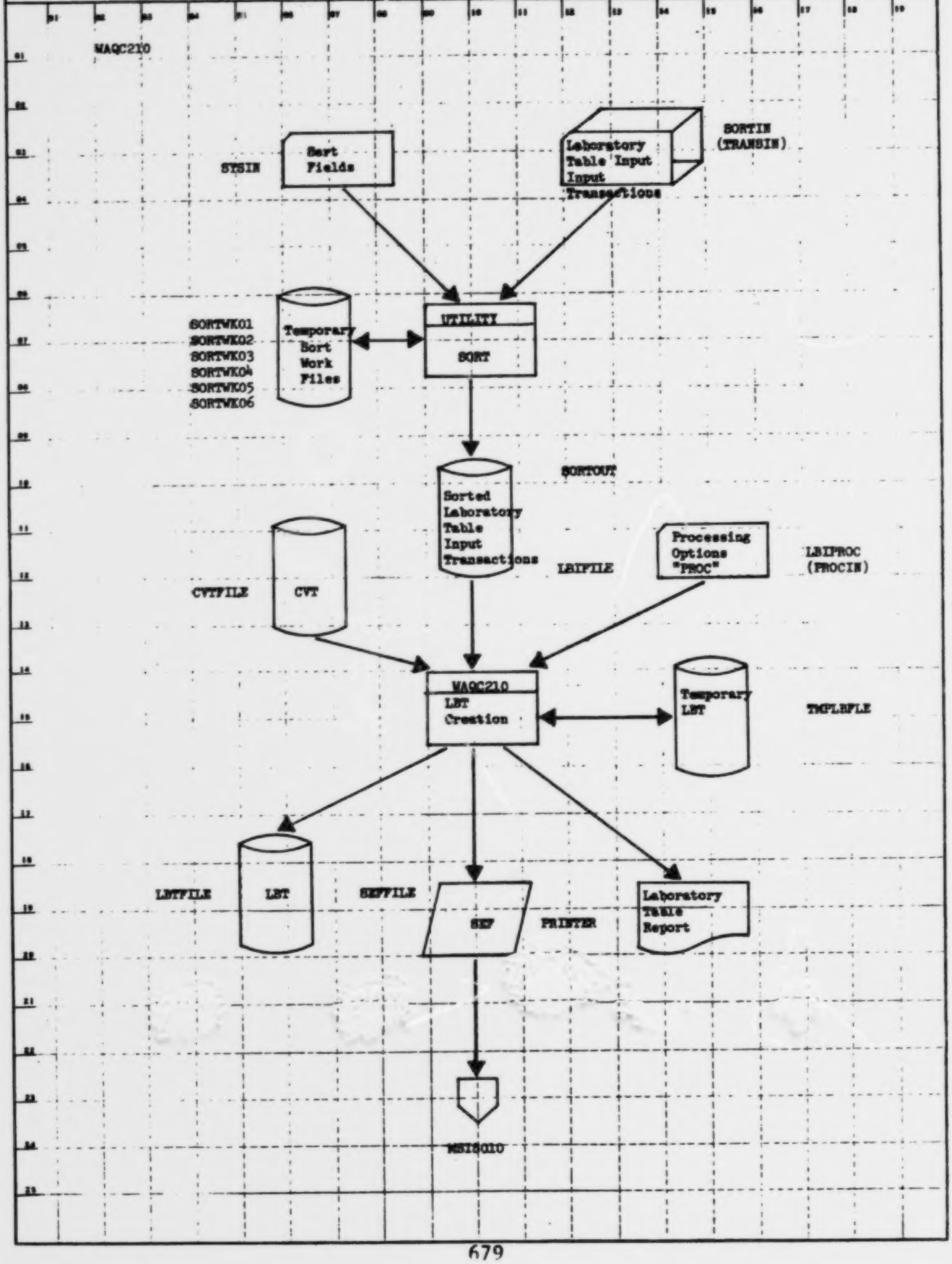
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


MAQC210
SYSIN
Sort Fields
Laboratory Table Input Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Laboratory Table Input Transactions
LBIFILE
CVTFILE
CVT
Processing Options "PROC"
LBIPROC (PROCIN)
MAQC210
LBT Creation
Temporary LBT
TMPLBFLE
LBTFILE
LBT
SEFFILE
SEF
PRINTER
Laboratory Table Report
MSIS010

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f. WAQC210 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO PROCESSING OPTION CARDS WERE PROVIDED
REMEDIAL ACTION: obtain processing option cards from data entry and rerun job.

MESSAGE: PROC CARD CONTAINS AN INVALID DATE
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - NUMBER OF TRACKS ALLOCATED FOR LBT TOO LOW
REMEDIAL ACTION: flush job and notify programmer.

MESSAGE: ERROR - LBI-PROC-OUTPUT NOT EQUAL TO Y OR N
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - LBI-PROC-FIELD-SELECT NOT EQUAL TO N
REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - NO CVT FILE SUPPLIED
REMEDIAL ACTION: mount CVT and rerun job.

MESSAGE: ERROR - INPUT TRANSACTIONS ARE OUT OF SEQUENCE
REMEDIAL ACTION: resort transactions and rerun job.

MESSAGE: ERROR - INVALID KEY ON WRITE FOR LBT-HDR-RECORD
REMEDIAL ACTION: flush job stream and notify programmer.

MESSAGE: ERROR - NO SPACE AVAILABLE TO WRITE LBT RECORD
REMEDIAL ACTION: more disk space is needed for the file. Reallocate space and rerun job.

WAQC220 - Sample Analysis File (SAF) Purge

a. Function

This program will purge records from the Sample Analysis File (SAF) that have a sample date less than the Processing Options purge date and a contaminant group equal to the contaminant group on the Processing Options record.

b. Inputs:

Sample Analysis File (SAF)

c. Processing Options:

PROC (WAQC.113)

d. Outputs:

Sample Analysis File (SAF)

Purged Sample Analysis File

Sample Analysis File Purge Report (WAQC.315)

Sample Analysis File Purge Statistics Report (WAQC.316, MSIS.309)

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e. I/O Chart

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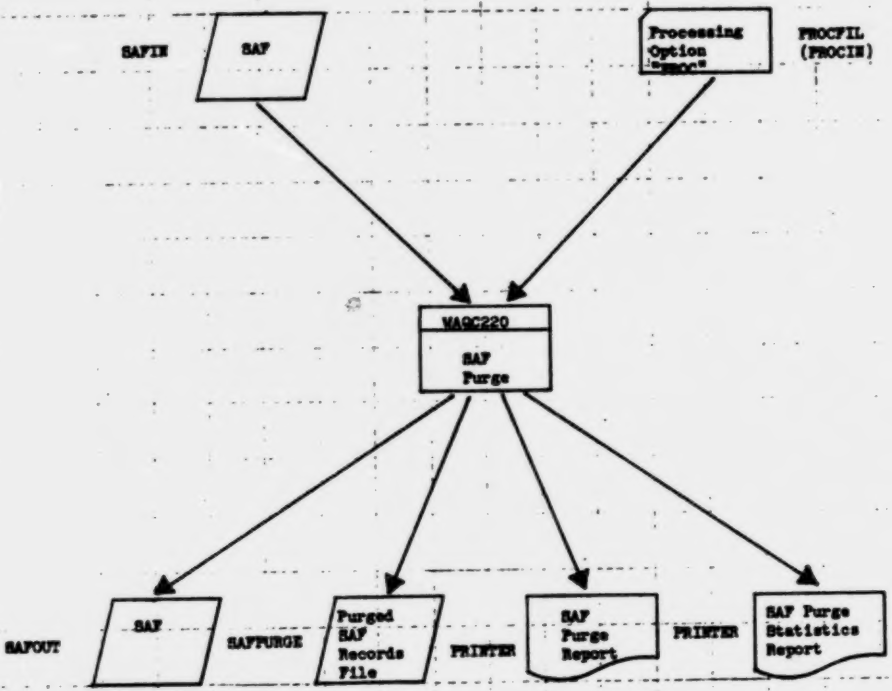
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________________ Date ____________ Page ____ of ____

Procedure ____________________ Drawn By ____________________

WAQC220


SAFIN
SAF
Processing Option "PROC"
PROCFIL (PROCIN)
WAQC220
SAF Purge
SAFOUT
SAF
SAFPURGE
Purged SAF Records File
PRINTER
SAF Purge Report
PRINTER
SAF Purge Statistics Report

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f. WAQC220 - Error Messages and Remedial Actions

MESSAGE: ERROR - NO PROC RECORDS WERE PROVIDED

REMEDIAL ACTION: obtain PROC record from data entry and rerun job.

MESSAGE: ERROR - MORE THAN ONE PROC RECORD SUPPLIED

REMEDIAL ACTION: return PROC records to data entry to determine which, if any, is correct.

MESSAGE: ERROR - PROC RECORD CONTAINS AN INVALID DATE

REMEDIAL ACTION: check for keypunch error, if not, return option to data entry.

MESSAGE: ERROR - PROC RECORD CONTAINS AN INVALID PURGE DATE

REMEDIAL ACTION: check for keypunck error, if not, return to data entry.

MESSAGE: ERROR - PROC RECORD CONTAINS INVALID PRINT CODE

REMEDIAL ACTION: check for keypunch error, if not, return to data entry.

MESSAGE: ERROR - RECORD TYPE NOT PROC

REMEDIAL ACTION: check for keypunch error, if not, return to data entry.

Federal Reporting Subsystem (FEDR)

General Description

The Federal Reporting Subsystem (FEDR) is a mandatory subsystem which produces two of the four files needed to meet requirements as specified in Section 142.15 of the Interim Primary Drinking Water Regulations that must be sent to EPA by states who assume primary enforcement responsibility. These include:

- Additions to the National Public Water System Inventory for any PWP record which was modified in the last year;
- All Federal violations of the primary drinking water regulations;
- All variances or exemptions being considered granted by the state and the status of each of the variances and exemptions.

The purpose of the FEDR Subsystem is to retrieve data elements from the state's files, and if necessary, reformat them, and create a file for reporting to EPA. There are two modules, FEDR010 and 020.

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

FEDRREPT - Create Federal Report Files

PROC Name: FEDRREPT

Function: Job stream to create the Modified Public Water File (PWF) and the Deviations File (DVF).

Step 1: This step executes program FEDR010 which creates the Modified Public Water File (PWF).

Step 2: This step executes program FEDR020 which creates the Deviations File (DVF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB FEDRREPT

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Create the Modified Public Water File (PWF) and the Deviations File (DVF)		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
1	MSIS.309	Standard Error Report	1	---	STD	1	---	---	---	Requestor
	FEDR.300	Completion Report	1	---	STD	---	---	---	---	Requestor
2	FEDR.300	Completion Report	1	---	STD	2	---	---	---	Requestor

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job FEDRREPT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes FEDR010 which creates the modified Public Water File (PWF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	CVTFIL	MSIS.206	YES	Contains the Model State Code Value Table
	PWFREC	PWSI.200	YES	Contains the Public Water File
	CARDFILE (PROC)	FEDR.100	YES*	Contains the PROC Date and other criteria

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job FEDRREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes FEDR010 which creates the modified Public Water File (PWF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	PRINTER	FEDR.300 MSIS.309	YES YES	Prints the Completion Report
	PWFMOD	PWSI.200	YES	Contains the modified Public Water File (PWF)
	DATEFL	FEDR.201	YES	Contains Date Options File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job FEDRREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes FEDR020 which creates the Deviations File (DVF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	VIFFIL	WAQC.255	YES	Contains the Violations File (VIF)
	VEFFIL	VAEX.212	YES	Contains the Variances and Exemptions File (VEF)
	DVFIFIL	FEDR.201	YES	Contains Date Options File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job FEDRREPT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes FEDR020 which creates the Deviations File (DVF)	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	FEDR.300	YES	Prints the Completion Report
	DVFFIL	FEDR.202	YES	Contains the Deviations File (DVF)

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB FEDRREPT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.FEDROPT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 1 OF 2

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB FEDRREPT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.FEDROPT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 2 OF 2

3. FEDR010 - Create Modified Public Water File (PWF)

a. Function

This program will produce a Modified Public Water File (PWF) which is a file containing all PWF records created or modified within a specified reporting period.

b. Inputs:

Code Value Table (CVT)

Public Water File (PWF)

c. Processing Options:

PROC (FEDR.100)

d. Outputs:

Modified PWF

Date Options File

Completion Report (FEDR.300)

e. I/O Chart

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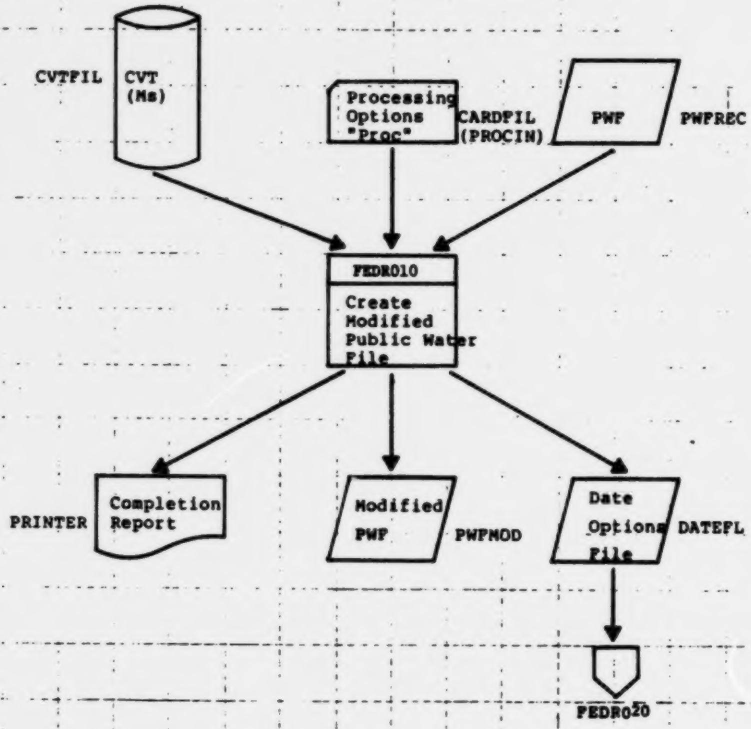
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

FEDR010



CVTFIL
CVT
(Ms)
Processing
Options
"Proc"
CARDFIL
(PROCIN)
PWF
PWFREC
FEDR010
Create
Modified
Public Water
File
PRINTER
Completion
Report
Modified
PWF
PWFMOD
Date
Options
File
DATEFL
FEDR020

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f. PEDR010 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records.

MESSAGE: ERROR - TYPE NOT PROC
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new options from data entry and use them to rerun job.

MESSAGE: ERROR - PROC STATE CODE INVALID
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new options from data entry and use them to rerun job.

4. FEDR020 - Create Deviations File

a. Function

This program will produce the Deviations File (DVF) which is a combination of information from the Violations File (VIF) and the Variances and Exemptions File (VEF).

b. Inputs:

Date Options File

Violations File (VIF)

Variances and Exemptions File (VEF)

c. Processing Options:

None

d. Outputs:

Deviations File (DVF)

Completion Report (FEDR.300)

e. I/O Chart

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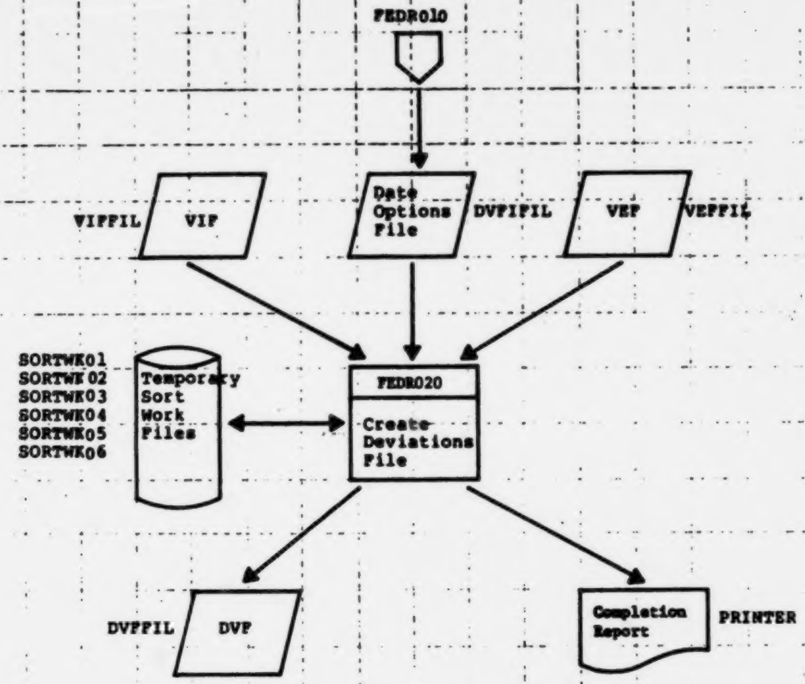
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________________ Date ____________ Page ____ of ____

Procedure ____________________ Drawn By ____________________

FEDR020:


FEDR010
VIFFIL
VIF
Date Options File
DVFIFIL
VEF
VEFFIL
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
FEDR020
Create Deviations File
DVFFIL
DVF
Completion Report
PRINTER

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f. FEDR020 - Error Messages and Remedial Actions

None.

III.E Standard Processing Subsystem (MSIS)

1. General Description

The Standard Processing Subsystem (MSIS) is a mandatory utility subsystem. It provides all of the other subsystems, except Federal Reporting (FEDR) and Sanitary Survey (SRVY) Subsystems, with edit criteria and error processing. It provides a history file for Enforcement Actions (ENAC), Operator and Mailing (OPER), Variances and Exemptions (VAEX), and the Violations File (VIF) from Water Quality Compliance (WAQC).

2. Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

MSISCRET - Table Creation

MSISPURG - SHF Purge

MSISSELT - SHEF Select

PROC Name: MSISCRFT

Function: Creates all of the Standard Tables used in the MSIS (CVT, DET, EMT).

Step 1: This step sorts the input data for Standard Table creation into the proper sequence for processing.

Step 2: This step executes program MSIS030 which creates all of the Standard Tables used in the MSIS (CVT, DET, EMT).

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Input for Standard Table Creation using Sort01	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	MSIS.102	OPTIONAL*	Contains the input transactions for Error Message Table
		MSIS.103	OPTIONAL*	Contains the input transactions for the Code Value Table
		MSIS.104	OPTIONAL*	Contains the input transactions for the Data Element Table

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input for Standard Table Creation using Sort01

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	MSIS.102	YES	Contains the sorted input for Standard Table Creation
		MSIS.103	YES	
		MSIS.104	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS030 which creates all of the Standard Tables in the MSIS (CVT, DET, EMT)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTABLS	MSIS.102 MSIS.103 MSIS.104	YES YES YES	Contains the sorted input for Standard Table Creation
	CARDFIL	MSIS.101	YES*	Contains PROC date and Processing Options

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes MSIS030 which creates all of the Standard Tables in the MSIS (CVT, DET, EMT)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTABLS	MSIS.102 MSIS.103 MSIS.104	YES YES YES	Contains the sorted input for Standard Table Creation
	CARDFIL	MSIS.101	YES*	Contains PROC date and Processing Options

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS030 which creates all of the Standard Tables in the MSIS (CVT, DET, EMT)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.300 MSIS.309	YES YES	Prints the Standard Update Statistics Report
		MSIS.302	OPTIONAL	Prints the Error Message Table Report
		MSIS.303	OPTIONAL	Prints the Code Value Table Report
		MSIS.304	OPTIONAL	Prints the Data Element Table Report
		MSIS.308	YES	Prints the Error In Card Code Report
	CVTEAFIL	MSIS.206	OPTIONAL	Contains updated Enforcement Actions Code Value Table
	CVTOMFIL	MSIS.206	OPTIONAL	Contains the Updated Operator and Mailing Code Value Table
	CVTPWFIL	MSIS206	OPTIONAL	Contains the Updated Public Water Code Value Table
	CVTLBFIL	MSIS.206	OPTIONAL	Contains the Lab Table Code Value Table
	CVTRGFIL	MSIS.206	OPTIONAL	Contains the Regulations Code Value Table

PAGE 2 OF 2

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS030 which creates all of the Standard Tables in the MSIS (CVT, DET, EMT)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	CVTVEFIL	MSIS.206	OPTIONAL	Contains the Variances and Exemptions Code Value Table
	CVTMSFIL	MSIS.206	OPTIONAL	Contains the Model State Code Value Table
	DETEAFIL	MSIS.201	OPTIONAL	Contains the Environmental Actions Data Element Table
	DETOMFIL	MSIS.201	OPTIONAL	Contains the Operator and Mailing Data Element Table
	DETPWFIL	MSIS.201	OPTIONAL	Contains the Public Water Data Element Table
	DETPSFIL	MSIS.201	OPTIONAL	Contains the Periodic Sample Data Element Table
	DETLBFIL	MSIS.201	OPTIONAL	Contains the Laboratory Data Element Table
	DETRGFIL	MSIS.201	OPTIONAL	Contains the Regulations Data Element Table

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISCRET

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS030 which creates all of the Standard Tables in the MSIS (CVT, DET, EMT)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETSAFIL	MSIS.201	OPTIONAL	Contains the Sample Analysis Data Element Table
	DETVEFIL	MSIS.201	OPTIONAL	Contains the Variances and Exemptions Data Element Table
	DETVIFIL	MSIS.201	OPTIONAL	Contains the Violations Data Element Table
	DETSHFIL	MSIS.201	OPTIONAL	Contains the Standard History Data Element Table
	DETPHFIL	MSIS.201	OPTIONAL	Contains the Public History Data Element Table
	EMTFIL	MSIS.205	OPTIONAL	Contains the Error Message Table

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISCRET

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPTABL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISCRET

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.TEMPTABL If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.EACVT MSIS.OMCVT MSIS.PWCVT MSIS.LBCVT MSIS.RGCVT MSIS.VECVT MSIS.MSCVT MSIS.EADET MSIS.OMDET MSIS.PWDET MSIS.PSDET MSIS.LBDET MSIS.RGDET MSIS.SADET MSIS.VEDET MSIS.VIDET MSIS.SHDET MSIS.PHDET MSIS.EMT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISCRET

RESTART PROCEDURE #	DESCRIPTION
Step 2 continued	(2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.EACVT MSIS.OMCVT MSIS.PWCVT MSIS.LBCVT MSIS.RGCVT MSIS.VECVT MSIS.MSCVT MSIS.EADET MSIS.OMDET MSIS.PWDET MSIS.PSDET MSIS.LBDET MSIS.RGDET MSIS.SADET MSIS.VEDET MSIS.VIDET MSIS.SHDET MSIS.PHDET MSIS.EMT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 3 OF 3

PROC Name: MSISPURG

Function: The purge of the Standard History File (SEF).

Step 1: This step executes program MSIS050 which performs a purge of the Standard History File (SHF).

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB MSISPURG

RUN FREQUENCY: Upon Request	JOB DUE OUT	
JOB DESCRIPTION: Standard History File Purge		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1.	MSIS.300	Standard Update Statistics Report	1	---	STD	1	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.305	Purge of the Standard History File	---	---	STD		---	---	---	Requestor

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISPURG

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS050 which performs a purge on the Standard History File (SAF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	DETVEFIL	MSIS.201	YES	Contains the Variances and Exemptions Data Element Table
	DETVIFIL	MSIS.201	YES	Contains the Violations Data Element Table
	DETEAFIL	MSIS.201	YES	Contains the Enforcement Actions Data Element Table
	DETOMFIL	MSIS.201	YES	Contains Operator and Mailing Data Element Table
	SHFIN	MSIS.202	YES	Contains the Standard History File
	CARDFIL (PROC)	MSIS.100	YES*	Contains the Proc Date and other criteria

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISPURG

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS050 which performs a purge on the Standard History File (SAF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SHFOUT	MSIS.202	YES	Contains the output Standard History File
	SHFPURGE	MSIS.213	YES	Contains the Purged Standard History File
	PRINTER	MSIS.305	YES	Prints the Purge of the Standard History File Report
		MSIS.300 MSIS.309	YES YES	Prints Standard Update Statistics Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISPURG

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: MSISSELT

Function: Selects records from the Standard History File (SHF) and produces a report of the selected records.

Step 1: This step sorts the processing option records to be used by program MSIS040 into the proper sequence for processing.

Step 2: This step executes program MSIS040 which selects records from the Standard History File (SHF) and produces a report of the selected records.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB MSISSELT

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Selects records from the Standard History File (SHF) and produces a report of the selected records	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.306	Standard Selection Statistics Report/Sort Sequence Report	---	---	STD	2	---	---	---	Requestor
	MSIS.307	Selection of the Standard History File Report	---	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	2	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the Processing Options Records used in MSIS040 using Sort02

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	MSIS.101	YES*	Contains Processing Date and other criteria
	(SEL1)	MSIS.106	YES*	Identifies fields to be selected
	(SEL2)	MSIS.107	YES*	Supplies relational operands which are applied to the selected fields
	(SORT)	MSIS.108	OPTIONAL*	Identifies fields by which outputs are sorted

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options Records used in MSIS04 using Sort02

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT (PROC)	MSIS.101	YES	Contains soreted PROC, SEL1, SEL2, and SORT entries
	(SEL1)	MSIS.106	YES	
	(SEL2)	MSIS.107	YES	
	(SORT)	MSIS.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISSELT

RUN FREQUENCY:

JOB DUE OUT

JOB DESCRIPTION: Executes MSIS040 which selects records from the Standard History File (SHF)

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
2	DETVIFIL		MSIS.201	YES	Contains the Violations Data Element Table
	DETVEFIL		MSIS.201	YES	Contains the Variances and Exemptions Data Element Table
	DETEAFIL		MSIS.201	YES	Contains the Enforcement Actions Data Element Table
	DETOMFIL		MSIS.201	YES	Contains the Operator and Mailing Data Element Table
	DETSHFIL		MSIS.201	YES	Contains the Standard History Data Element Table
	SHFIFIL		MSIS.20	YES	Contains the input Standard History File
	PROCOP	(PROC)	MSIS.101	YES	Contains sorted PROC, SEL1, SEL2, and SORT entries
		(SEL1)	MSIS.106	YES	
		(SEL2)	MSIS.107	YES	
		(SORT)	MSIS.108	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job MSISSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS040 which selects records from the Standard History File (SHF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.306	YES	Prints the Standard Selection Statistics Report
	PRINTR2	MSIS.309 MSIS.307	YES YES	Prints the Selected SHF Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISSELT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.MSISPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 1 OF 2

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB MSISSELT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.MSISPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

3. MSIS010 - Standard Error Processing

a. Function

This program produces the Standard Error Report, and if specified by the Processing Options, an Optional Error File. Both are produced using the Standard Error File (SEF), which is a file of error transactions that are produced by the Public Water System Inventory (PWSI), Water Quality and Compliance (WAQC), Regulations (REGS), Variances and Exemptions (VAEX), Enforcement Actions (ENAC), Operator and Mailing (OPER), and Standard Processing (MSIS) Subsystems.

b. Inputs:

Data Element Table (DET)

Error Message Table (EMT)

Standard Error File (SEF)

c. Processing Options:

None

d. Outputs:

Optional Error File (OEF)

Data Entry Error Report (MSIS.313)

e. I/O Chart

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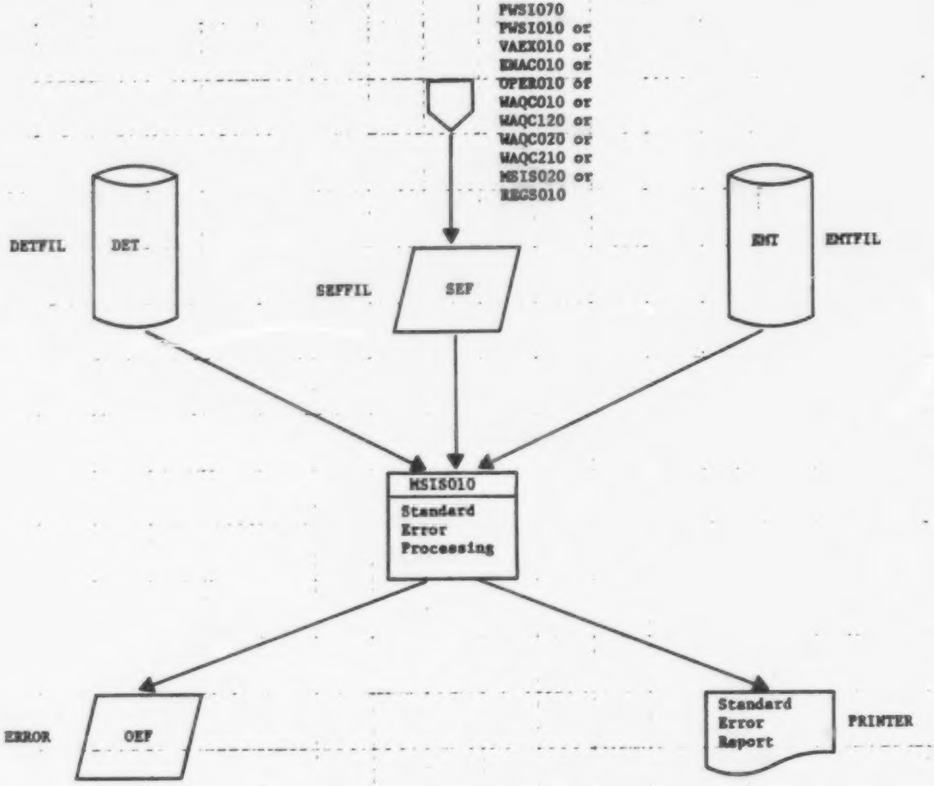
MSIS010


PWSI070
PWSI010 or
VAEX010 or
EMAC010 or
OPER010 or
WAQC010 or
WAQC120 or
WAQC020 or
WAQC210 or
MSIS020 or
REGS010
DETFIL
DET
SEFFIL
SEF
EMT
EMTFIL
MSIS010
Standard
Error
Processing
ERROR
OEF
Standard
Error
Report
PRINTER

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f. MSIS010 - Error Messages and Remedial Actions

MESSAGE: ERROR - FIRST RECORD NOT PROCESSING OPTIONS

REMEDIAL ACTION: Obtain processing options from data entry and rerun job

MESSAGE: ERROR - ERROR MESSAGE TABLE WAS NOT LOADED

REMEDIAL ACTION: Errors occurred in processing. Notify programmer before rerunning job.

MESSAGE: ERROR - ERROR MESSAGE TABLE HAS BEEN EXCEEDED

REMEDIAL ACTION: Program must be changed to accomodate extra error messages. Notify programmer.

MESSAGE: ERROR - DATA ELEMENT TABLE HAS BEEN EXCEEDED

REMEDIAL ACTION: Program must be changed to accomodate extra DET records. Notify programmer.

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4. MSIS020 - Standard History File (SHF) Maintenance

a. Function

This program updates the Standard History File (SHF) with new entries from the Violations File (VIF), the Variances and Exemptions File (VEF), the Enforcement Actions File (EAF), or the Operator and Mailing File (OMF). The SHF Update and Statistics Report is produced. The content of this report depends on the Processing Options.

b. Inputs:

Standard History File (SHF)

New Update Transactions

Data Element Table (DET)

c. Processing Options:

None

d. Outputs:

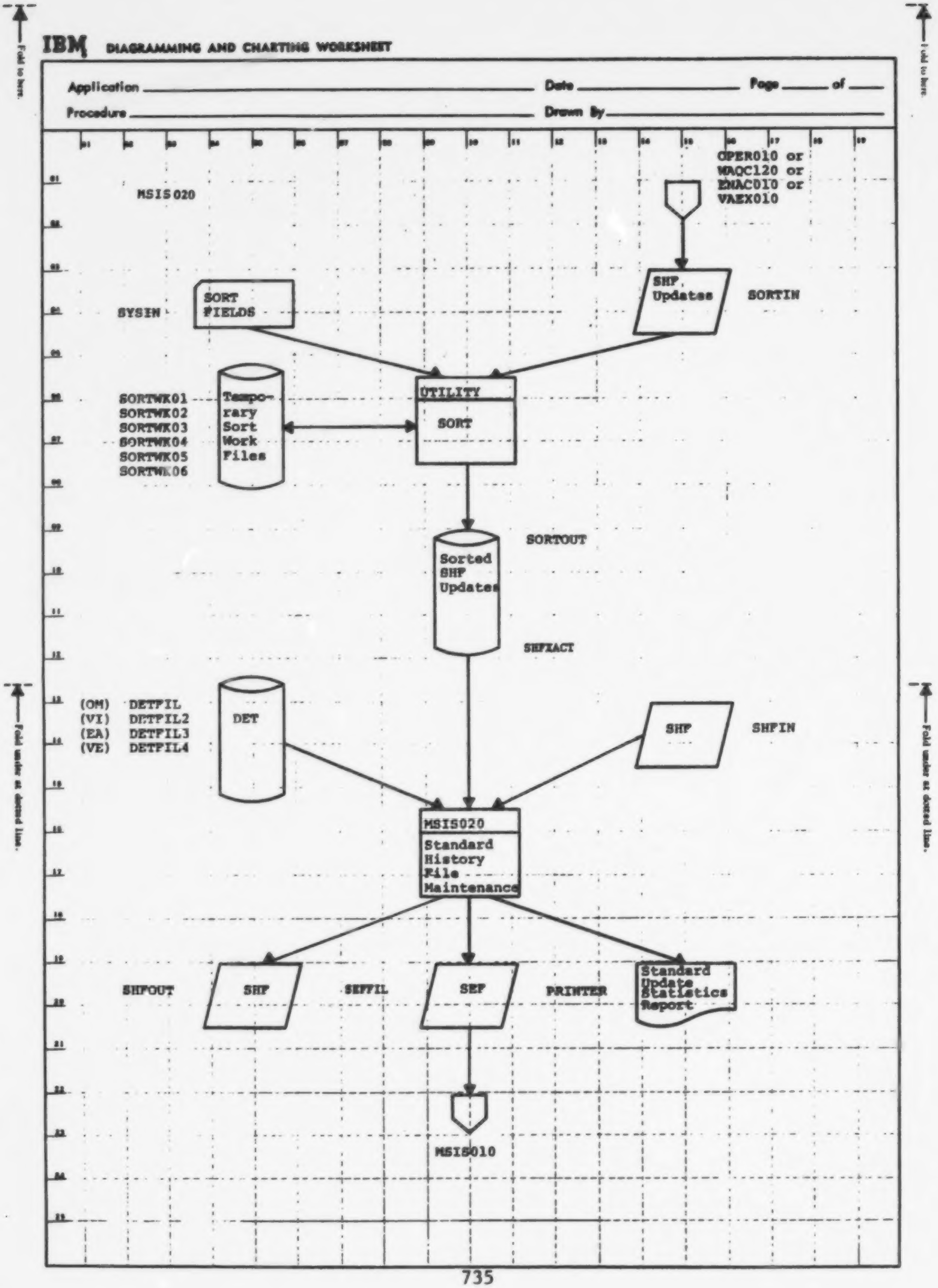
Update SHF

Standard History Report (MSIS.301)

Standard Error File (SEF)

Standard Update Statistics (MSIS.300)

e. I/O Chart


IBM DIAGRAMMING AND CHARTING WORKSHEET
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MSIS020
OPER010 or
WAQC120 or
EHAC010 or
VAEX010
SYSIN
SORT FIELDS
SHF Updates
SORTIN
UTILITY
SORT
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Sorted SHF Updates
SORTOUT
SHFTACT
(OM) DETFIL
(VI) DETFIL2
(EA) DETFIL3
(VE) DETFIL4
DET
SHF
SHFIN
MSIS020
Standard History File Maintenance
SHFOUT
SHF
SEFFIL
SEF
PRINTER
Standard Update Statistics Report
MSIS010

f. MSTS020 - Error Messages and Remedial Actions

MESSAGE: ERROR - PROCESSING OPTIONS DATE ERROR
REMEDIAL ACTION: Check for keypunch error, if not, return to data entry

MESSAGE: ERROR - PROCESSING OPTIONS CARD MISSING
REMEDIAL ACTION: Obtain PROC record from data entry and rerun job

MESSAGE: ERROR - FIRST RECORD IS NOT PROCESSING OPTION
REMEDIAL ACTION: If there is a PROC record, make sure it is spelled correctly. If it is not present, obtain a PROC record from data entry. If there has been a keypunch error, correct and rerun job.

5. MSIS030 - Standard Tables Creation

a. Function

This program will create the Standard Tables: Error Message Table (EMT), Code Value Tables (CVT), and the Data Element Table (DET); which are used throughout the eight subsystems of MSIS.

b. Inputs:

Error Message Table (EMT) Transactions

Code Value Table (CVT) Transactions

Data Element Table (DET) Transactions

c. Processing Options:

PROC (MSIS.101)

d. Outputs:

Update Statistics Report (MSIS.301)

Error Message Table (EMT) Report (MSIS.302)

Code Value Table (CVT) Report (MSIS.303)

Data Element Table (DET) Report (MSIS.304)

EMT

CVT

DET

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e. I/O Chart

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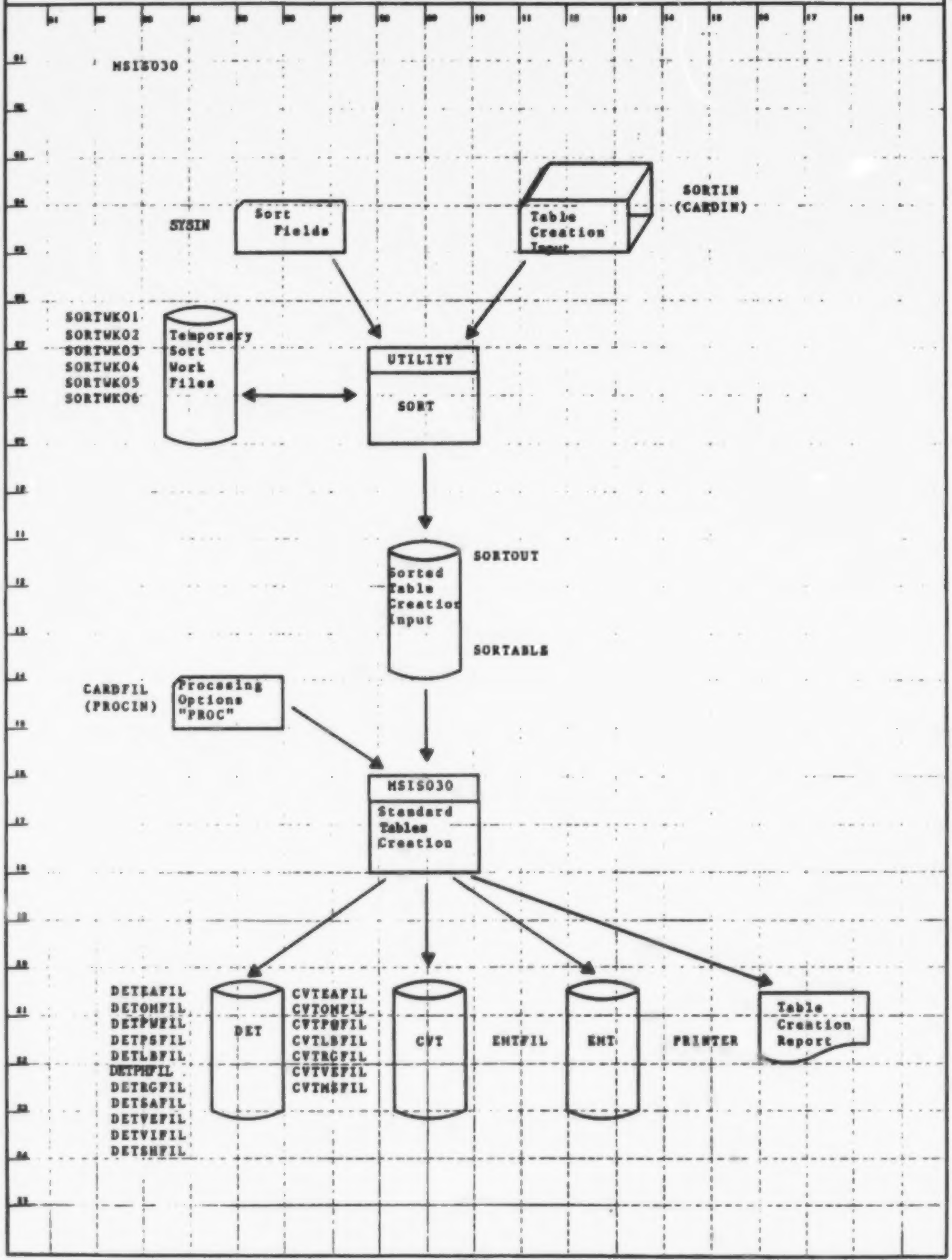
MSIS030
SYSIN
Sort Fields
Table Creation Input
SORTIN (CARDIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Table Creation Input
SORTOUT
SORTABLE
CARDFIL (PROCIN)
Processing Options "PROC"
MSIS030
Standard Tables Creation
DETEAFIL
DETOMFIL
DETPWFIL
DETPSFIL
DETLBFIL
DETPHFIL
DETRGFIL
DETSAFIL
DETVEFIL
DETVIFIL
DETSHFIL
DET
CVTEAFIL
CVTOMFIL
CVTPQFIL
CVTLBFIL
CVTRGFIL
CVTVEFIL
CVTMSFIL
CVT
EMTFIL
EMT
PRINTER
Table Creation Report

f. MSIS030 - Error Messages and Remedial Actions

MESSAGE: ERROR - ERROR IN CARD CODE
REMEDIAL ACTION: Check for keypunch error, if not, return to data entry to make corrections before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION DATE ERROR
REMEDIAL ACTION: Check for keypunch error, if not, return to data entry to make correction before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION ID ERROR
REMEDIAL ACTION: Check for keypunch error, if not, return to data entry to make correction before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION CARD MISSING
REMEDIAL ACTION: Obtain PROC record from data entry and rerun job.

MESSAGE: ERROR - FIRST RECORD IS NOT PROCESSING OPTION
REMEDIAL ACTION: If there is a PROC record, make sure it is spelled correctly. If it is not present, obtain a PROC record from data entry. If there has been a keypunch error, correct and rerun job.

6. MSIS040 - Standard History File (SHF) Selection

a. Function

This program will select records from the Standard History File (SHF) based on the selection criteria entered on the Processing Options. The selected records will be printed in the sequence established by the user.

b. Inputs:

Standard History File (SHF)

Data Element Table (DET)

c. Processing Options:

PROC (MSIS.101)

SEL1 (MSIS.106)

SEL2 (MSIS.107)

SORT (MSIS.108)

d. Outputs:

Standard Update Statistics Report (MSIS.300)

Selection Statistics Report (MSIS.306)

Selected SHF Report (MSIS.307)

e. I/O Chart

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IBM DIAGRAMMING AND CHARTING WORKSHEET

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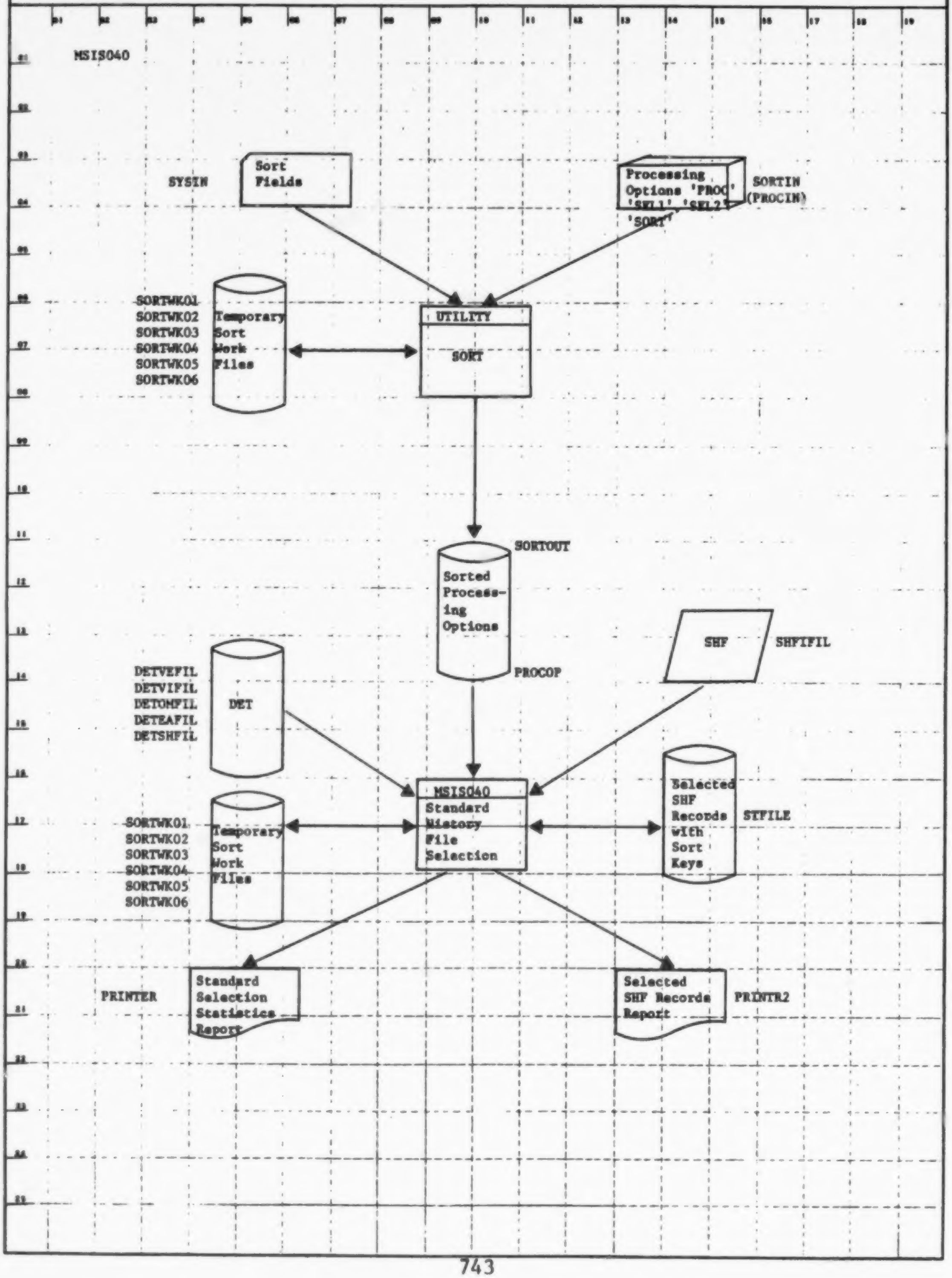
Procedure ______________ Drawn By ______________



MSIS040
SYSIN
Sort Fields
Processing Options 'PROC' 'SEL1' 'SEL2' 'SORT'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Processing Options
PROCOP
SHF
SHFIFIL
DETVEFIL
DETVIFIL
DETOMFIL
DETEAFIL
DETSHFIL
DET
MSIS040
Standard History File Selection
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
Selected SHF Records with Sort Keys
STFILE
PRINTER
Standard Selection Statistics Report
Selected SHF Records Report
PRINTR2

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f. MSIS040 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages. Remedial Actions for PROC Records and SEL1 & SEL2 Records.

MESSAGE: ERROR - NO SH DATA ELEMENT TABLE WAS PROVIDED.
REMEDIAL ACTION: Mount Standard History DET and rerun job.

7. MSIS050 - Standard History File (SHF) Purge

a. Function

This program purges records from the Standard History File (SHF) that have the current date less than the Processing Options purge date.

b. Inputs:

Data Element Table (DET)

Standard History File (SHF)

c. Processing Options:

PROC (MSIS.100)

d. Outputs:

Standard History File (SHF)

Purged SHF records

Purge of the Standard History File Report (MSIS.305)

Standard Update Statistics Report (MSIS.300)

e. I/O Chart

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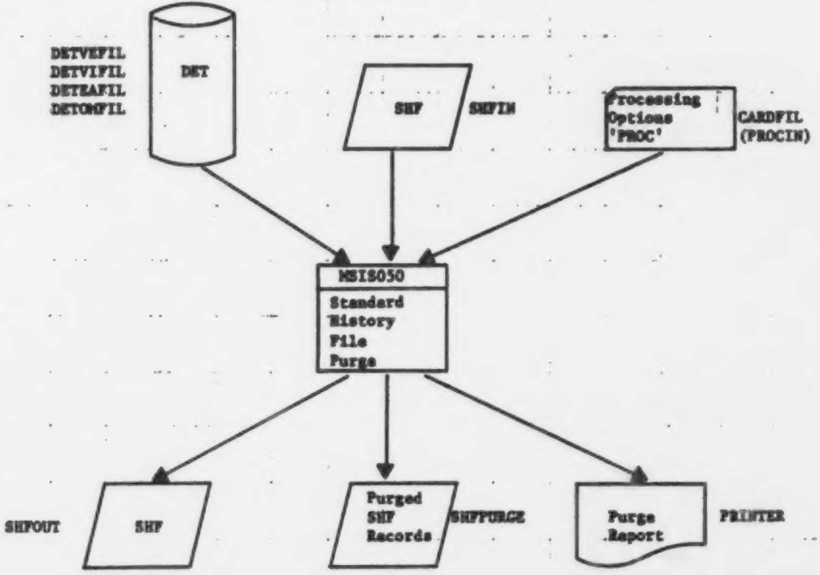
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

MSIS050


DETVEFIL
DETVIFIL
DETEAFIL
DETOMFIL
DET
SHF
SHFIN
Processing
Options
'PROC'
CARDFIL
(PROCIN)
MSIS050
Standard
History
File
Purge
SHFOUT
SHF
Purged
SHF
Records
SHFPURGE
Purge
Report
PRINTER

Fold under at dotted line.

f. MSIS050 - Error Messages and Remedial Actions

MESSAGE: ERROR - PROCESSING OPTION ID ERROR
REMEDIAL ACTION: check for keypunch error, if not, return to data entry for correction before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION DATE ERROR
REMEDIAL ACTION: check for keypunch error, if not, return to data entry for correction before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION PURGE DATE ERROR
REMEDIAL ACTION: check for keypunch error, if not, return to data entry for correction before rerunning job.

MESSAGE: ERROR - PROCESSING OPTION CARD MISSING
REMEDIAL ACTION: obtain PROC card from data entry and rerun job.

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III.F Variances and Exemptions Subsystem (VAEX)

1. General Description

The purpose of this optional subsystem is to provide the state or region with a method for collection, maintenance and processing of data related to the process of granting variances or exemptions from State or Federal Regulations. The variances and exemptions are granted by states who have primary enforcement responsibility. For states that have not qualified for primary enforcement responsibility, the EPA region is authorized to grant variances and exemptions.

Variances and exemptions may not be granted if to do so would result in an "unreasonable risk to health". EPA has indicated that this is to be interpreted to mean that no variances or exemptions from bacteriological Maximum Contaminant Levels (MCL's) should be permitted. Variances and exemptions, therefore, will probably be permitted only from the chemical contaminant levels.

Variances and exemptions both have essentially the same result. Both effectively exempt a Public Water System (PWS) from one or more requirements of the regulations. The difference lies in the circumstances under which they may be granted and the length of time allowed for compliance.

2. Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

VAEXSELT - VEF Selection

VAEXUPDT - VEF Update

PROC Name: VAEXSELT

Function: The selection of records from the Variances and Exemptions File (VEF).

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program VAEX040 which selects records from the Variances and Exemptions File (VEF).

Step 3: This step sorts the Report File into the sequence specified by the "SORT" processing option records.

Step 4: This step executes program VAEX041 which produces the Variances and Exemptions Condensed Report.

Step 5: This step executes program VAEX050 which produces the Variances and Exemptions Case History Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **VAEXSELT**

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Variances and Exemptions File (VEF) Selection	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.306	Standard Selection Statistics Report/Sort Sequence Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	VAEX.306	Variances and Exemptions Condensed Report	---	---	STD	4	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **VAEXSELT**

RUN FREQUENCY:	**Upon Request**	**JOB DUE OUT**
JOB DESCRIPTION:	**Variances and Exemptions File (VEF) Selection**	

STEP	**REPORT(S) PRODUCED**		**EST.# OF PAGES**	**#OF PARTS AND/OR FORM#**	**CARRIAGE TAPE**	**RESTART PROCEDURE**	**DELOCATE**	**BURST**	**TRIM**	**SEND OUT-PUT TO**
	EXHIBIT #	**NAME**								
5	**VAEX.307** **VAEX.308**	**PAGE 1 OF:** **PAGE 2 OF:** **Variances and Exemptions Case History Report**	---	---	**STD**	**5**	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input Transactions for the Variances and Exemptions File using Sort01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	VAEX.104	YES*	Contains Processing Date and other criteria
	(SORT)	VAEX.103	OPTIONAL*	Identifies fields by which outputs are sorted
	(SEL1)	VAEX.105	YES*	Identifies fields to be selected
	(SEL2)	VAEX.106	YES*	Supplies relational operands which are applied to the selected fields

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Input Transactrions for the Variances and Exemptions File using Sort01

STEP	OUTPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	(PROC)	VAEX.104	YES	Contains sorted Input Transactions for the Variances and Exemptions File
		(SORT)	VAEX.103	YES	
		(SEL1)	VAEX.105	YES	
		(SEL2)	VAEX.106	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes VAEX040 which selects records from the Variances and Exemptions File (VEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	DETVEFIL	MSIS.201	YES	Contains the Variances and Exemptions Data Element Table
	PWTIFIL	PWSI.201	YES	Contains the Public Water Table
	PROCOP (PROC)	VAEX.104	YES	Contains the sorted Input Transactions for the Variances and Exemptions File
	(SORT)	VAEX.103	YES	
	(SEL1)	VAEX.105	YES	
	(SEL2)	VAEX.106	YES	
	VEFIFIL	VAEX.212	YES	Contains the Variances and Exemptions File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX040 which selects records from the Variances and Exemptions File (VEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.306	YES	Prints the Standard Selection Statistics Report
		MSIS.309	YES	
	VEFOFIL	VAEX.213	YES	Contains the Variances and Exemptions Report File
		VAEX.210	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Report File using Sort04

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	VAEX.213	YES	Contains the Variances and Exemptions Report File
		VAEX.210	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Report File using Sort04	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	VAEX.213 VAEX.210	YES YES	Contains the sorted Variances and Exemptions Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes VAEX041 which produces the Variances and Exemptions Condensed Report.	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	VEFIN	VAEX.213 VAEX.210	YES YES	Contains the sorted Variances and Exemptions Report File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes VAEX041 which produces the Variances and Exemptions Condensed	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINTER	VAEX.306	YES	Prints the Variances and Exemptions Condensed Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes VAEX050 which produces the Variances and Exemptions Case History Report	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	VEFIN	VAEX.213	YES	Contains the sorted Variances and Exemptions Report File
		VAEX.210	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX050 which produces the Variances and Exemptions Case History Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	VAEX.307	YES	Prints the Variances and Exemptions Case History Report
		VAEX.308	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXSELT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VAEXPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VAEXPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXSELT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.VAEXPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VAEXREPT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VAEXREPT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXSELT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.VAEXREPT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPVERP B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPVERP B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXSELT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPVERP If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXSELT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPVERP If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets wereuncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: VAEXUPDT

Function: The creation and update of records in the Variances and Exemptions File (VEF).

Step 1: This step sorts the input transactions for the Variances and Exemptions File into the proper sequence for processing.

Step 2: This step executes program VAEX010 which updates the Variances and Exemptions File (VEF).

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 4: This step sorts the Standard History File (SHF) updates into the proper sequence for processing.

Step 5: This step executes program MSIS020 and merges the Standard History File updates with the existing SHF.

Step 6: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 7: This step sorts the Variances and Exemptions Compliance Schedule File into the proper sequence for processing.

Step 8: This step executes program VAEX020 which produces the Variances and Exemptions Compliance Schedule Report.

Step 9: This step sorts the Variances and Exemptions Compliance in Arrears File into the proper sequence for processing.

Step 10: This step executes VAEX030 which produces the Variances and Exemptions Compliance in Arrears Report.

Step 11: This step executes program VAEX050 which produces the Variances and Exemptions Case History Report.

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **VAEXUPDT**

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Variances and Exemptions File (VEF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.300	Standard Update Statistics Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.310	Standard Warning Report	---	---	STD	---	---	---	---	Requestor
3	MSIS.313	Data Entry Error Report	---	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	MSIS.300	Standard Update Statistics Report	1	---	STD	5	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB VAEXUPDT

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Variances and Exemptions File (VEF) Update		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.301	Standard History Update Report	---	---	STD	---	---	---	---	Requestor
6	MSIS.313	Data Entry Error Report	---	---	STD	6	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	VAEX.302 VAEX.303	PAGE 1 OF: PAGE 2 OF: Variances and Exemptions Compliance Schedule Report	---	---	STD	8	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **VAEXUPDT**

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Variances and Exemptions File (VEF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
10	VAEX.304 VAEX.305	PAGE 1 OF: PAGE 2 OF: Variances and Exemptions Compliance in Arrears Report	---	---	STD	10	---	---	---	Requestor
11	VAEX.307 VAEX.308	PAGE 1 OF: PAGE 2 OF: Variances and Exemptions Case History Report	---	---	STD	11	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts Input Transactions for the Variances and Exemptions File using Sort01	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	VAEX.100 VAEX.101 VAEX.107	Optional* Optional* Optional*	Input Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts Input Transactions for the Variances and Exemptions File using Sort01	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	VAEX.100 VAEX.101 VAEX.107	Yes	Contains sorted Input Transactions

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX010 which updates the Variances and Exemption File (VEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	CVTVE	MSIS.206	Yes	Contains the Variances and Exemptions Code Value Table
	CVTMS	MSIS.206	Yes	Contains the Model States Code Value Table
	PWT	PWSI.201	Yes	Contains the Public Water Table
	PROCOP (PROC)	VAEX.102	Yes*	Contains Processing Date and other criteria
	TRANS	VAEX.100 VAEX.101 VAEX.107	Yes	Contains sorted Input Transaction
	VEFIN	VAEX.212	Yes	Contains the Variances and Exemptions File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX010 which updates the Variances and Exemption File (VEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.300	Yes	Prints the Standard Update Statistics Report
		MSIS.309 MSIS.310	Yes	Prints the Standard Warning Report
	VEFOUT	VAEX.212	Yes	Contains the Variances and Exemptions File
	SHF	MSIS.202 MSIS.213	Optional	Contains the Standard History File
	SEF	MSIS.207 MSIS.208	Yes	Contains the Standard Error File
	PWF	PWSI.204	Optional	Contains the Public Water System PWFI-TRAN-IS Inventory Update Transaction
	COMPS	VAEX.211 VAEX.209	Optional	Contains Variances and Exemption Compliance File

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes VAEX010 which updates the Variances and Exemption File (VEF)	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	COMPA	VAEX.208 VAEX.217	Optional	Contains the Variances and Exemption Compliance Arrears File
	VECASE	VAEX.213 VAEX.210	Optional	Contains the Variances and Exemptions Report File

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **VAEXUPDT**

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes MSIS010	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	Yes	Contains the Variances and Exemptions Data Element Table
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS010

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Standard History File (SHF) using Sort01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	MSIS.202 MSIS.213	Yes	Contains the Standard History File (SHF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Standard History File (SHF) using Sort01	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	MSIS.202 MSIS.213	Yes	Sorted Standard History File (SHF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Executes MSIS020

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	DETFIL	MSIS.201	Yes	Contains the Variances and Exemptions Code Value Table
	DETFIL2	MSIS.201	Yes	Contains the Violations Code Value Table
	DETFIL3	MSIS.201	Yes	Contains the Enforcement Actions Code Value Table
	DETFIL4	MSIS.201	Yes	Contains the Operator and Mailing Code Value Table
	SHFXACT	MSIS.202 MSIS.213	Yes	Contains sorted Standard History File (SHF)
	SHFIN	MSIS.202	Yes	Contains the Standard History File (SHF)

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS020

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	MSIS.301	Yes	Prints the Standard History Report
		MSIS.300	Yes	Prints the Standard Update Statistics Report
	SHFOUT	MSIS.202	Yes	Contains the Updated Standard History File
	SEFOUT	MSIS.207 MSIS.208	Yes	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS010

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETFIL	MSIS.201	Yes	Contains the Variances and Exemptions Data Element Table
	EMTFIL	MSIS.205	Yes	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	Yes	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	MSIS.313	Yes	Prints the Data Entry Error Report
	ERROR	MSIS.215	Optional	Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Variances and Exceptions Compliance Schedule File using Sort03	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN	VAEX.211 VAEX.209	Yes	Contains the Variances and Exceptions Compliance File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Variances and Exceptions Compliance Schedule File using Sort03

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	Sortout	VAEX.211 VAEX.209	Yes	Contains the sorted Variances and Exceptions Compliance File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes VAEX020	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	COMPFILE	VAEX.211 VAEX.209	Yes	Contains the sorted Variances and Exemptions Compliance File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX020

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINTER	VAEX.302 VAEX.303	Yes	Prints the Variances and Exemptions Compliance File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Variances and Exemptions Compliance in Arrears File using Sort03

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN	VAEX.208 VAEX.217	Yes	Contains the Variances and Exemptions Compliance in Arrears File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job **VAEXUPDT**

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Variances and Exemptions Compliance in Arrears File using Sort 03

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT	VAEX.208 VAEX.217	Yes	Contains the sorted Variances and Exemptions Compliance in Arrears File

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes VAEX030 which produces the Variances and Exemptions Compliance in Arrears Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	ARRSFILE	VAEX.208 VAEX.217	Yes	Contains the sorted Variances and Exemptions in Arrears File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes VAEX030 which produces the Variances and Exemptions Compliance in Arrears Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRINTER	VAEX.304 VAEX.305	Yes	Prints the Variances and Exemptions Compliance in Arrears Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes VAEX050 which produces the Variances and Exemptions Case History Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	VEFIN	VAEX.213 VAEX.210	Yes	Contains the Variances and Exemptions Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job VAEXUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes VAEX050 which produces the Variances and Exemptions Case History Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
11	PRINTER	VAEX.307 VAEX.308	Yes	Prints the Variances and Exemptions Case History Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VAEXTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VAEXTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.VAEXTRAN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.VAEXSHF MSIS.VESEF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.VAEXSHF MSIS.VESEF

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 2 ontinued	B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.VESEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.VAEXSHF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.VAEXSHF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPVESH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.TEMPVESH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPVESH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.VESEF MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SHF DDNAME=SHFIN C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.VESEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.VAEXCOMP MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.VAEXCOMP If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPVECS B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.TEMPVECS MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME-VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.TEMPVECS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.VAEXARRS MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: MSIS.VAEXARRS If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. MSIS.TEMPVECA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.TEMPVECA MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.TEMPVECA If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.TEMPVERP MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB VAEXUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 11	(1) Check the following data sets to see if they were kept: MSIS.TEMPVERP If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 11. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.VEF DDNAME=VEFOUT MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.VEF DDNAME=VEFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

VAEX010 - Variances and Exemptions File (VEF) Data Entry and Update

a. Function

This program will read and validate the update transactions for the Variances and Exemptions File (VEF). Valid transactions will be used to update the VEF and to generate update transactions for the Public Water File (PWF) and the Standard History File (SHF). This program will also build intermediate files for the production of the Variances and Exemptions Compliance Schedule Report, Compliance in Arrears Report, and Case History Report.

b. Inputs:

Variances and Exemptions File (VEF)

Input Transactions (VAEX.100, 101 and 107)

Code Value Table (CVT)

Public Water Table (PWT)

c. Processing Options:

PROC (VAEX.102)

d. Outputs:

Variances and Exemptions File (VEF)

Public Water System Inventory (PWSI) Update Transactions

Standard History File (SHF)

Variances and Exemptions Compliance in Arrears File

Variances and Exemptions Report File

Standard Update Statistics Report (MSIS.300 and 309)

Standard Warning Report (MSIS.310)

Variances and Exemptions Compliance File

Standard Error File

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e. I/O Chart

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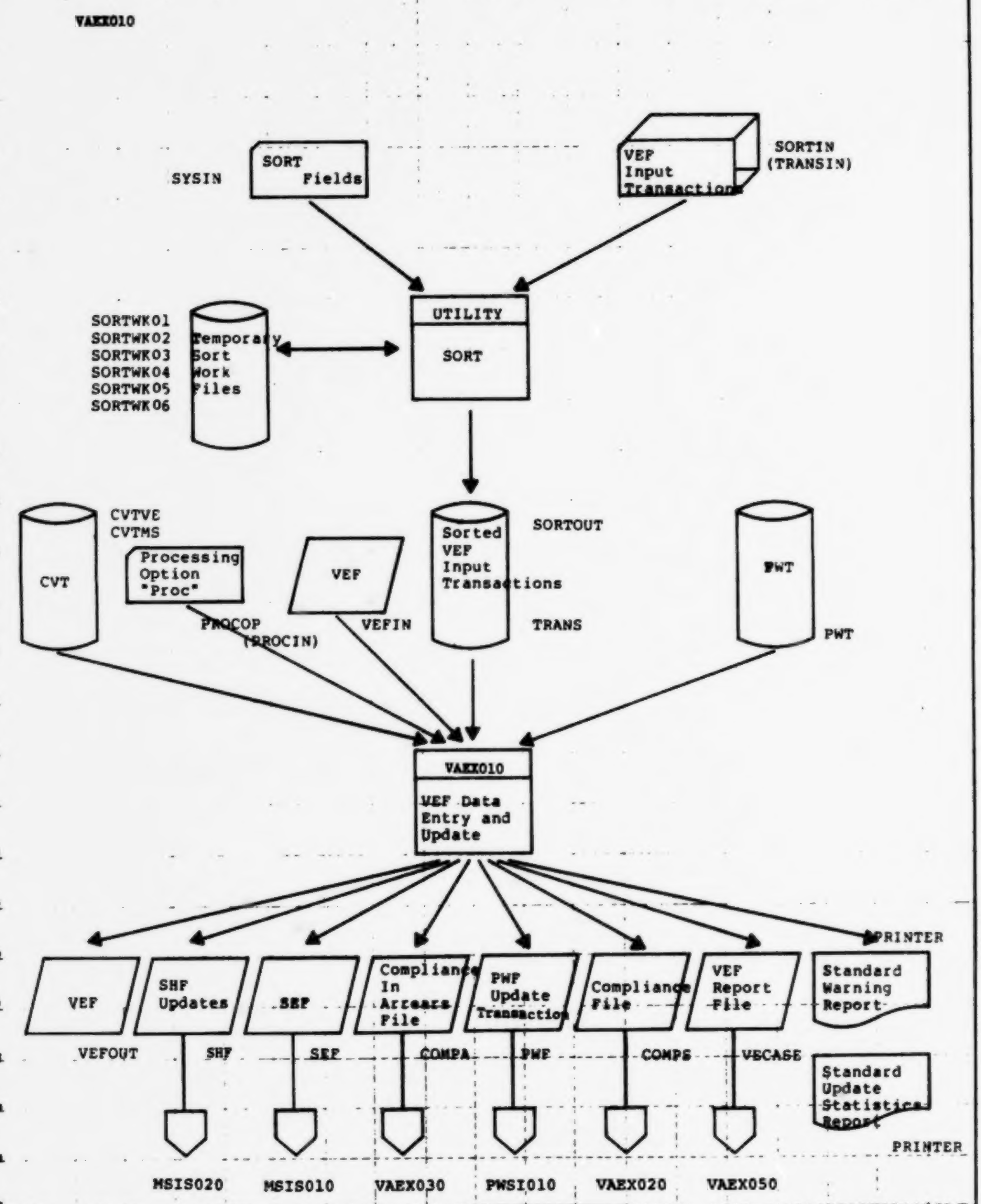
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______



VAEX010
SYSIN
SORT Fields
VEF Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
CVTVE
CVTMS
CVT
Processing Option "Proc"
PROCOP (PROCIN)
VEF
VEFIN
Sorted VEF Input Transactions
SORTOUT
TRANS
PWT
PWT
VAEX010
VEF Data Entry and Update
PRINTER
VEF
VEFOUT
SHF Updates
SHF
SEF
SEF
Compliance In Arrears File
COMPA
PWF Update Transaction
PWF
Compliance File
COMPS
VEF Report File
VECASE
Standard Warning Report
Standard Update Statistics Report
PRINTER
MSIS020
MSIS010
VAEX030
PWSI010
VAEX020
VAEX050

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f. VAEX010 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records.

MESSAGE: PWS-ID CAUSED UNRECOVERABLE ERROR
REMEDIAL ACTION: The PWS-ID was invalid and cannot be processed. Remove the transaction and rerun the job.

VAEX020 - Compliance Schedule Report

a. Function

This program will produce the Variances and Exemptions Compliance Schedule Report.

b. Inputs:

Variances and Exemptions Compliance File

c. Processing Options:

None

d. Outputs:

Variances and Exemptions Compliance Schedule Report (VAEX.302 and 303)

e. I/O Chart

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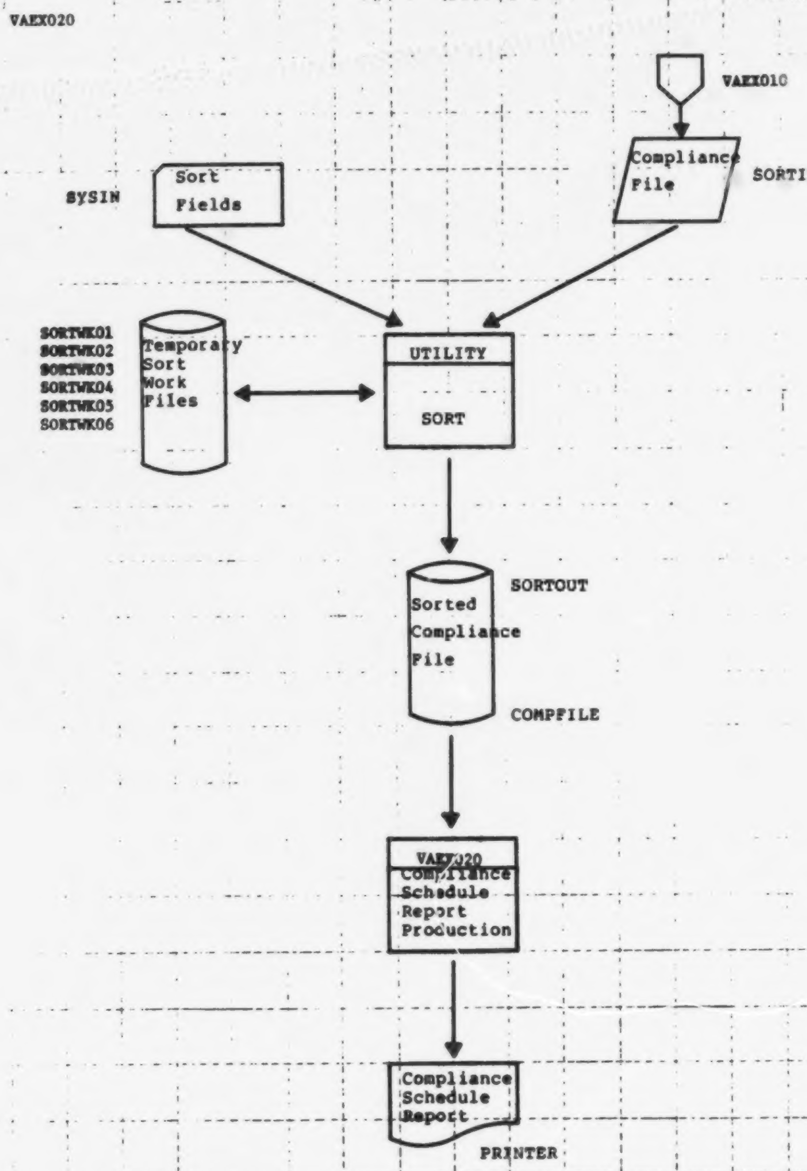
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


VAEX020
VAEX010
Compliance File
SORTIN
SYSIN
Sort Fields
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Compliance File
COMPFILE
VAEX020
Compliance Schedule Report Production
Compliance Schedule Report
PRINTER

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f. VAEX020 - Error Messages and Remedial Actions

None.

VAEX030 - Compliance Schedule In Arrears Report

a. Function

This program will produce the Variances and Exemptions Compliance In Arrears Report.

b. Inputs:

Variances and Exemptions Compliance In Arrears File

c. Processing Options:

None

d. Outputs:

Variances and Exemptions Compliance In Arrears Report (VAEX.304 and 305)

e. I/O Chart

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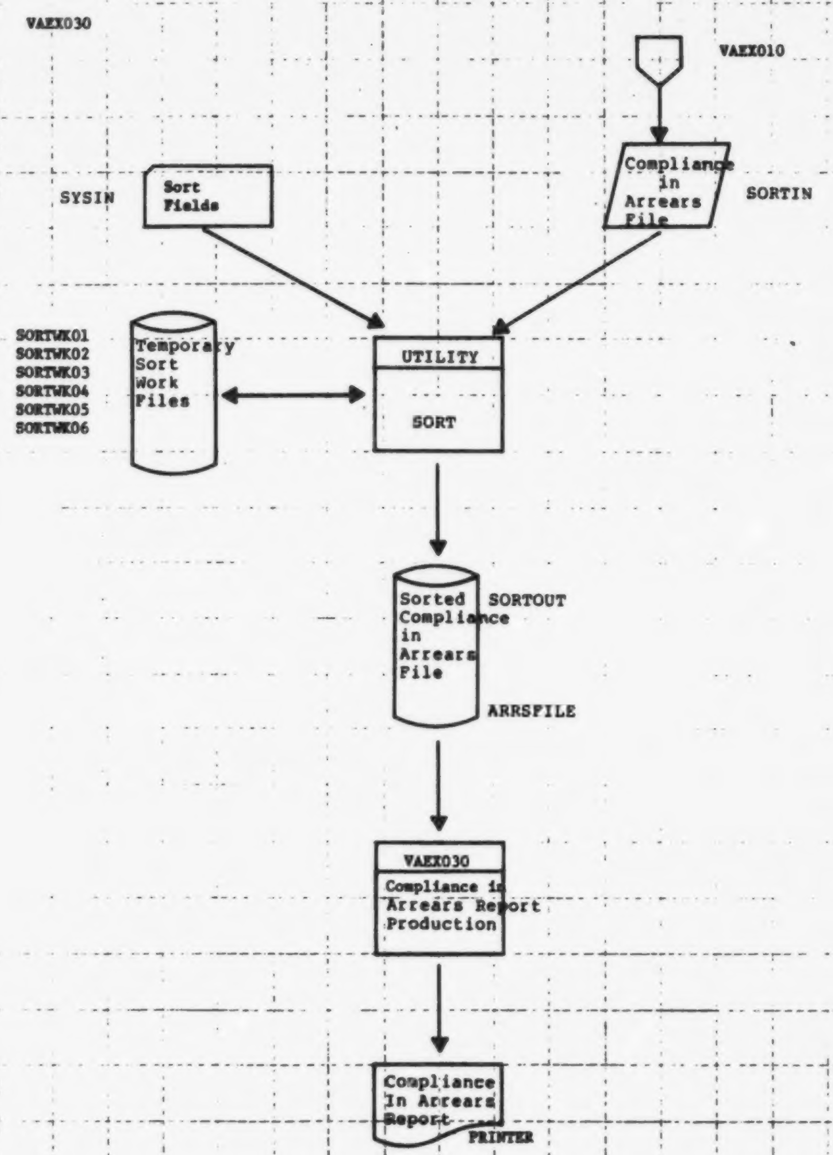
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Procedure ______ Drawn By ______


VAEX030
VAEX010
Sort Fields
SYSIN
Compliance in Arrears File
SORTIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Compliance in Arrears File
SORTOUT
ARRSFILE
VAEX030
Compliance in Arrears Report Production
Compliance In Arrears Report
PRINTER

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Fold under at dotted line.

f. VAEX030 - Error Messages and Remedial Actions

None.

VAEX040 - Variances and Exemptions File (VEF) Selection

a. Function

This program will search the Variances and Exemptions File (VEF) and select specific records for the Variances and Exemptions Case History Report and the Variances and Exemptions Condensed Report based upon user-defined selection criteria.

b. Inputs:

Variances and Exemptions File (VEF)

Public Water Table (PWT)

Data Element Table (DET)

c. Processing Options:

PROC (VAEX.104)

SORT (VAEX.103)

SEL1 (VAEX.105)

SEL2 (VAEX.106)

d. Outputs:

Variances and Exemptions Report File

Standard Selection Statistics Report (MSIS.306 and 309)

e. I/O Chart

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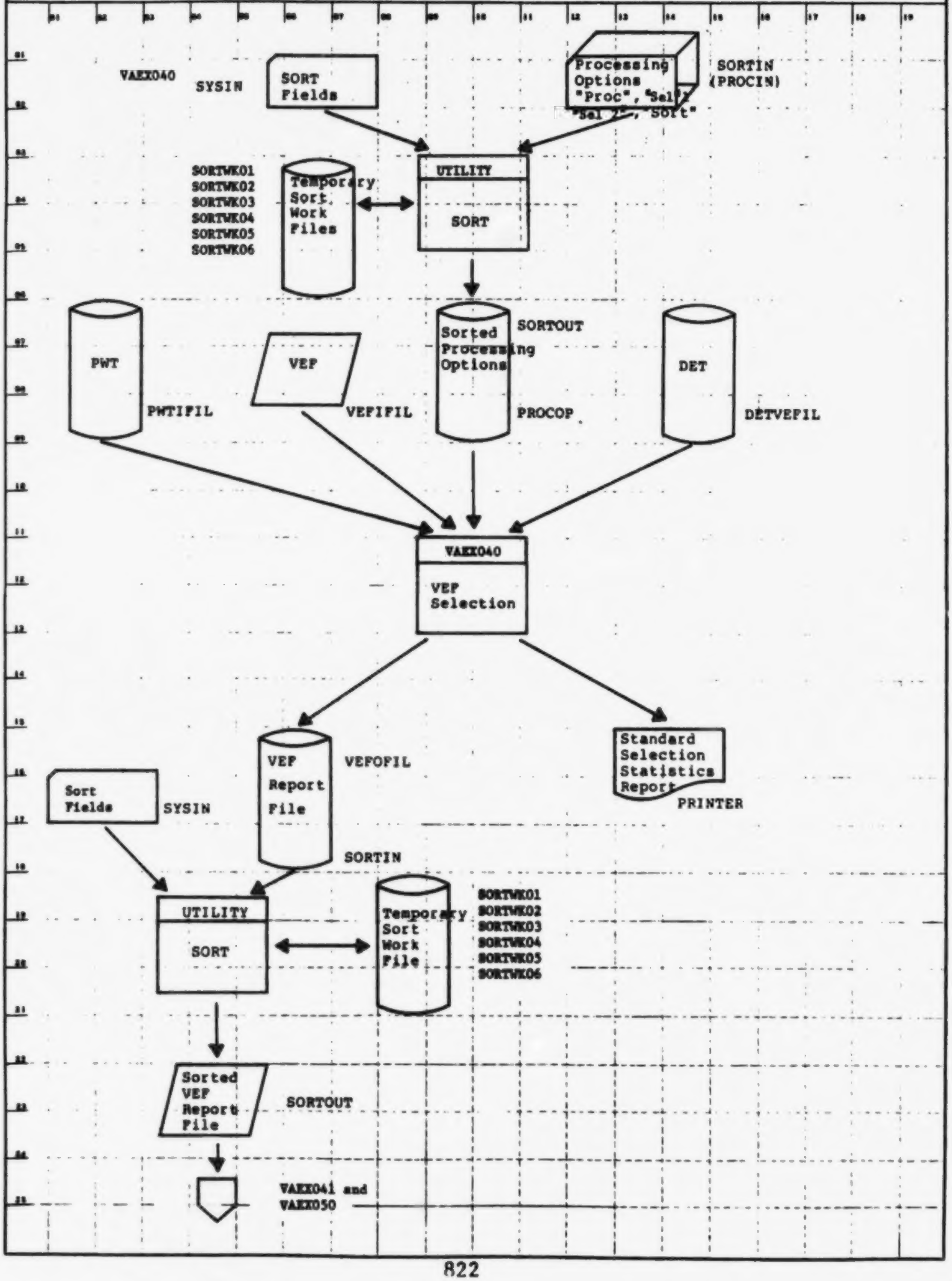
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Procedure ______ Drawn By ______



VAEX040
SYSIN
SORT Fields
Processing Options "Proc", "Sel 1", "Sel 2", "Sort"
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Processing Options
SORTOUT
PROCOP
PWT
PWTIFIL
VEF
VEFIFIL
DET
DETVEFIL
VAEX040
VEF Selection
VEF Report File
VEFOFIL
SORTIN
Standard Selection Statistics Report
PRINTER
Sort Fields
SYSIN
UTILITY
SORT
Temporary Sort Work File
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Sorted VEF Report File
SORTOUT
VAEX041 and VAEX050

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f. VAEX040 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records and for SEL1 and SEL2 Records.

MESSAGE: ERROR - NO VE DATA ELEMENT TABLE WAS PROVIDED
REMEDIAL ACTION: Mount VE DET and rerun job

MESSAGE: ERROR - DATA ELEMENT TABLE EXCEEDS MAXIMUM
REMEDIAL ACTION: Notify programming that the DET exceeds program capacity and that the program will have to be changed to accommodate a larger DET.

MESSAGE: ERROR - INVALID REPORT REQUEST - NOT Y OR N
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for correction. Obtain new option and rerun job.

MESSAGE: ERROR - NO PWT RECORD FOR THIS ITEM
REMEDIAL ACTION: None. This is used to notify the user the PWS-ID was either entered incorrectly or that it actually is not on file and must be entered before this transaction can be processed.

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VAEX041 - Condensed Report

a. Function

This program will produce the Variances and Exemptions Condensed Report.

b. Inputs:

Variances and Exemptions Report File

c. Processing Options:

None

d. Outputs:

Variances and Exemptions Condensed Report (VAEX.306)

e. I/O Chart

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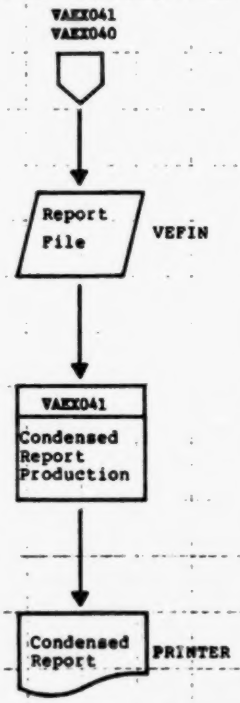
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

VAEX041



VAEX041
VAEX040
Report File
VEFIN
VAEX041
Condensed Report Production
Condensed Report
PRINTER

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f. VAEX041 - Error Messages and Remedial Actions

None.

VAEX050 - Case History Report

a. Function

This program will produce the Variances and Exemptions Case History Report.

b. Inputs:

Variances and Exemptions Report File

c. Processing Options:

None

d. Outputs:

Variances and Exemptions Case History Report (VAEX.307 and 308)

e. I/O Chart

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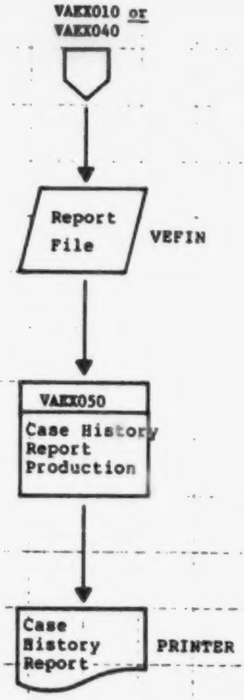
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ___ of ___

Procedure ______ Drawn By ______

VAEX050



VAEX010 or
VAEX040
Report File
VEFIN
VAEX050
Case History Report Production
Case History Report
PRINTER

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f. VAEX050 - Error Messages and Remedial Actions

None

The Enforcement Actions Subsystem (ENAC)

General Description

The purpose of this optional subsystem is to provide the state with a method for collection, maintenance, and processing of data related to actions performed in connection with enforcing the state's own regulations (or the Federal Regulations) under the Safe Drinking Water Act. The data can then be used for evaluating the effectiveness of different types of Enforcement Actions. Reporting to EPA of Enforcement Actions, as required by section 142.15 of the regulations, can also be done automatically using the subsystem by submitting to EPA the reports of the entire Enforcement Actions File (EAF).

2. Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

ENACSELT - EAF Select

ENACUPDT - EAF Update

PROC Name: ENACSELT

Function: The selection of records from the Enforcement Action File (EAF).

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes the program ENAC020 which selects records from the Enforcement Actions File (EAF).

Step 3: This step sorts the Case History File into the sequence specified by the "SORT" processing option records.

Step 4: This step executes program ENAC040 which produces the Enforcement Actions Condensed Report.

Step 5: This step executes program ENAC030 which produces the Enforcement Actions Case History Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **ENACSELT**

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Enforcement Actions File (EAF) Selection		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.306	Standard Selection Statistics /Sort Sequence Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	ENAC.301	Enforcement Actions Condensed Report	---	---	STD	4	---	---	---	Requestor
5	ENAC.300	Enforcement Actions Case History Report	---	---	STD	5	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts Processing Options Using Sort06

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	(PROC)	ENAC.105	YES*	Contains Processing Date and other criteria
		(SORT)	ENAC.106	OPTIONAL*	Identifies fields by which outputs are sorted
		(SEL1)	ENAC.107	YES*	Identifies fields to be selected
		(SEL2)	ENAC.108	YES*	Supplies rational operands which are applied to the selected fields

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts Processing Options using Sort06

STEP	OUTPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	(PROC)	ENAC.105	YES	Contains sorted PROC, SORT, SEL1 and SEL2 entries
		(SORT)	ENAC.106	YES	
		(SEL1)	ENAC.107	YES	
		(SEL2)	ENAC.108	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program ENAC020, selects Program for Enforcement Actions File (EAF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PROCOP (PROC)	ENAC.105	YES	Contains SORTED,PROC,SORT,SEL1, and SEL2 entries
	(SORT)	ENAC.106	YES	
	(SEL1)	ENAC.107	YES	
	(SEL2)	ENAC.108	YES	
	DETEAFIL	MSIS.201	YES	Contains Data Entry Table data
	EAFFIL	ENAC.202	YES	Contains Enforcement Action Records

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes Program ENAC020, selects Program for Enforcement Actions File (EAF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	EAFCHFIL	ENAC.200	YES	Contains Selected Enforcement Action Records
		ENAC.203	YES	
	Printer	MSIS.306	YES	Prints the Standard Selection Statistics Report
		MSIS.309	YES	Prints errors in processing records and associated messages

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts Enforcement Action Case History File using Sort05

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	ENAC.200	YES	Contains Selected Enforcement Action Records to be sorted
		ENAC.203	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Sorts Enforcement Action Case History File using Sort05

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	ENAC.200	YES	Contains sorted Selected Enforcement Action Records
		ENAC.203	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes ENAC040 which produces the Enforcement Actions Condensed Report.	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	EAFIHFIL	ENAC.200 ENAC.203	YES	Contains sorted Selected Enforcement Action Records for processing

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes ENAC040 which produces the Enforcement Actions Condensed Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINT	ENAC.301	YES	Prints the Enforcement Actions Condensed Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes ENAC030 which produces the Enforcement Actions Case History Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	CVTEA	MSIS.206	YES	Contains the Code Value Table data
	CVTMS	MSIS.206	YES	Contains Code Value Table
	PWT	PWSI.201 PWSI.234	YES YES	Contains Public Water Table data
	EACH	ENAC.203 ENAC.200	YES YES	Contains sorted Selected Enforcement Action Records

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes ENAC030 which produces the Enforcement Actions Case History Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	ENAC.300	YES	Prints the Enforcement Actions Case History Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACSELT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.ENACPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACSELT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.ENACPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.ENACCASE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.ENACCASE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACSELT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.ENACCASE If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPEACH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPEACH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACSELT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPEACH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACSELT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPEACH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name: ENACUPDT

Function: The creation and update of records on the Enforcement Actions File (EAF).

Step 1: This step sorts the input transactions for the Enforcement Actions File into the proper sequence for processing.

Step 2: This step executes program ENAC010 which updates the Enforcement Actions File (EAF).

Step 3: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 4: This step sorts the Standard History File (SHF) and updates into the proper sequence for processing.

Step 5: This step executes program MSTS020 and merges the Standard History File updates with the existing SHF.

Step 6: This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).

Step 7: This step executes program ENAC030 which produces the Enforcement Actions Case History Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB ENACUPDT

RUN FREQUENCY:	Upon Request	JOB DUE OUT	
JOB DESCRIPTION:	Enforcement Actions File (EAF) Update		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.300	Standard Update Statistics Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
	MSIS.310	Standard Warning Report	---	---	---	---	---	---	---	Requestor
3	MSIS.313	Data Entry Error Report	---	---	STD	3	---	---	---	Requstor
4	---	---	---	---	---	4	---	---	---	---
5	MSIS.300	Standard Update Statistics	1	---	STD	5	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB **ENACUPDT**

RUN FREQUENCY:	Upon Request	JOB DUE OUT
JOB DESCRIPTION:	Enforcement Actions File (EAF) Update	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
		Report								
	MSIS.301	Standard History Update Report	---	---	STD	---	---	---	---	Requestor
6	MSIS.313	Data Entry Report	---	---	STD	6	---	---	---	Requestor
7	ENAC.300	Enforcement Actions Case History Report	---	---	STD	7	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts Input Transaction using Sort01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	ENAC.101	OPTIONAL*	Contains input transaction data
		ENAC.102	OPTIONAL*	
		ENAC.103	OPTIONAL*	
		ENAC.104	OPTIONAL*	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Input Transaction using Sort01	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	ENAC.101	YES	Contains sorted Input Transactions
		ENAC.102	YES	
		ENAC.103	YES	
		ENAC.104	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes ENAC010 which updates the Enforcement Actions File (EAF)	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	CVTEA	MSIS.206	YES	Contains the Enforcement Action Code Value Table
	CVTMS	MSIS.206	YES	Contains the Model States Code Value Table
	PWT	PWSI.201 PWSI.234	YES YES	Contains the Public Water Table
	PROCOP (PROC)	ENAC.100	YES*	Contains Processing Date and other criteria
	TRANS	ENAC.101 ENAC.102 ENAC.103 ENAC.104	OPTIONAL OPTIONAL OPTIONAL OPTIONAL	Contains sorted Input Transaction
	EAFIN	ENAC.202	YES	Contains Enforcement Actions Records to be processed

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes ENAC010 which updates the Enforcement Actions File (EAF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	EAFOUT	ENAC.202	YES	Contains Updated Enforcement Actions File
	EACASE	ENAC.200 ENAC.203	YES YES	Contains Enforcement Actions Case History File
	SHF	MSIS.202 MSIS.200	YES YES	Contains the Standard History File
	SEF	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File
	PRINTER	MSIS.300	YES	Prints the Standard Update Statistics Report
		MSIS.309	YES	Prints errors in processing records and associated messages
		MSIS.310	OPTIONAL	Prints the Standard Warning Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes MSIS010 which creates Error Report from the Standard Error File (SEF).	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	YES	Contains the Data Element File
	EMTFIL	MSIS.205	YES	Contains the Error Message Table
	SEFFIL	MSIS.207	YES	Contains the Standard Error File
		MSIS.208	YES	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION:	Executes MSIS010 which creates Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	YES	Prints the Data Entry Error Report
	ERROR	MSIS.215	OPTIONAL	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts Standard History File (SHF) Updates using Sort01	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	MSIS.202	YES	Contains the Standard History File (SHF) Updates

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Standard History File (SHF) Updates using Sort01	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	MSIS.202	YES	Contains sorted Standard History File (SHF) Updates

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS020 and merges the Standard History File Updates with the existing SHF

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	DETFIL	MSIS.201	YES	Contains Enforcement Actions Data Element Table
	DETFIL2	MSIS.201	YES	Contains Violations File Data Element Table
	DETFIL3	MSIS.201	YES	Contains Operator and Mailing Data Element Table
	DETFIL4	MSIS.201	YES	Contains Variances and Exemptions Data Element Table
	SHFXACT	MSIS.202	YES	Contains sorted Standard History File (SHF) Updates
	SHFIN	MSIS.202	YES	Contains Standard History File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION:	Executes MSIS020 and merges the Standard History File Updates with the existing SHF

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SHFOUT	MSIS.202	YES	Contains Updated Standard History File (SHF)
	SEFFIL	MSIS.207 MSIS.208	YES	Contains the Standard Error File
	PRINTER	MSIS.301	YES	Prints the Standard History Report
		MSIS.300	YES	Prints the Standard Update Statistics Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETFIL	MSIS.201	YES	Contains the Data Element File
	EMTFIL	MSIS.205	YES	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	MSIS.313	YES	Prints the Data Entry Error Report
	ERROR	MSIS.215	OPTIONAL	Contains the Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes ENAC030 which produces the Enforcement Actions Case History Report	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	CVTEA	MSIS.206	YES	Contains Enforcement Actions Code Value Table
	CVTMS	MSIS.206	YES	Contains Model States Code Value Table
	PWT	PWSI.201 PWSI.234	YES YES	Contains the Public Water Table
	EACH	ENAC.203 ENAC.200	YES YES	Contains Enforcement Actions Case History File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job ENACUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes ENAC030 which produces the Enforcement Actions Case History Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	PRINTER	ENAC.300	YES	Prints Enforcement Actions Case History Report

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.ENACTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.ENACTRAN If any of the above data sets were not kept go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.EAF DDNAME=EAFOUT MSIS.ENACSHF MSIS.EASEF MSIS.TEMPEACH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.EASEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPEACH MSIS.ENACSHF MSIS.EAF DDNAME=EAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.ENANCSHF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPEASH B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPEASH MSIS.TEMPEACH MSIS.EAF DDNAME=EAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPEASH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.EASEF MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SHF DDNAME=SHFIN C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.EASEF MSIS.SHF DDNAME=SHFOUT MSIS.TEMPEACH MSIS.EAF DDNAME=EAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.EASEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SHF DDNAME=SHFOUT MSIS.TEMPEACH MSIS.EAF DDNAME=EAFOUT] B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB ENACUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.TEMPEACH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SHF DDNAME=SHFOUT MSIS.EAF DDNAME=EAFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.EAF DDNAME=EAFIN MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

ENAC010 - Enforcement Actions File (EAF) Data Entry and Update

a. Function

This program will update the Enforcement Actions File (EAF) and produce the Standard Update Statistics Report. It will also build Standard History File (SHF) Records, Standard Error File (SEF) records, if necessary, and Enforcement Actions Case History File records for requested and new Enforcement Actions Cases.

b. Inputs:

Input Transactions (ENAC.101, 102, 103 and 104)

Enforcement Actions File (EAF)

Code Value Table (CVT)

Public Water Table (PWT)

c. Processing Options:

PROC (ENAC.100)

d. Outputs:

Enforcement Actions File (EAF)

Enforcement Actions Case History File

Standard History File (SHF)

Standard Error File (SEF)

Standard Update Statistics Report (MSIS.300 and 309)

Standard Warning Report (MSIS.310)

e. I/O Chart

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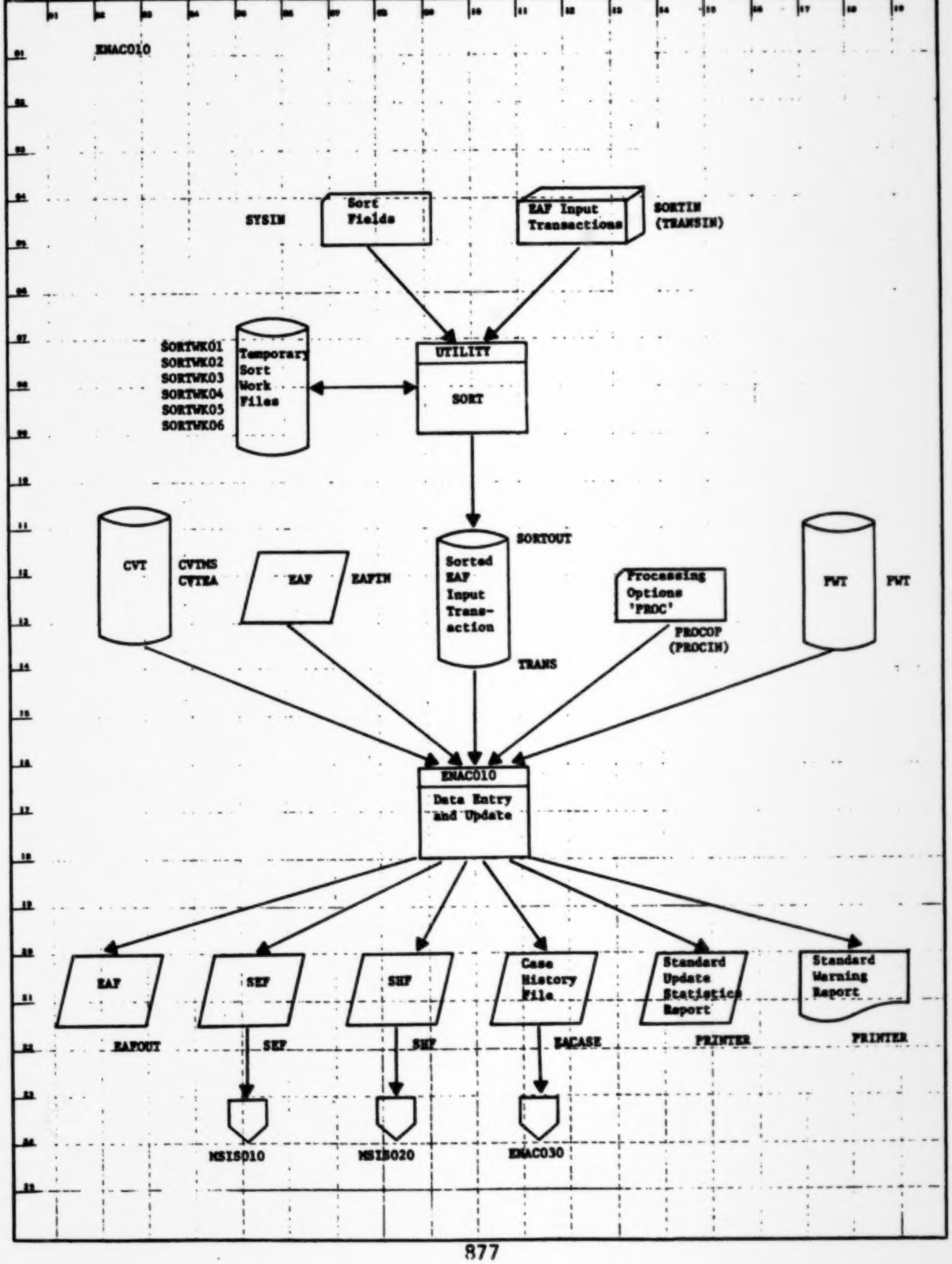
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

Procedure ____________ Drawn By ____________


ENAC010
SYSIN
Sort Fields
EAF Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
CVT
CVTMS
CVTEA
EAF
EAFIN
Sorted EAF Input Trans-action
SORTOUT
TRANS
Processing Options 'PROC'
PROCOP (PROCIN)
PWT
PWT
ENAC010
Data Entry and Update
EAF
EAFOUT
SEF
SEF
SHF
SHF
Case History File
EACASE
Standard Update Statistics Report
PRINTER
Standard Warning Report
PRINTER
MSIS010
MSIS020
ENAC030

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Fold under at dotted line.

f. ENAC010 - Error Messages and Remedial Actions

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records.

MESSAGE: PWS-ID CAUSED UNRECOVERABLE ERROR * ABEND *
REMEDIAL ACTION: The PWS-ID was invalid and cannot be processed. Remove the transaction and rerun the job.

MESSAGE: NO RECORDS AVAILABLE FOR CODE VALUE TABLE * ABEND *
REMEDIAL ACTION: Mount CVT and rerun job. If CVT was mounted and there are no records on it, program MSIS030 must be run to create a CVT so that this program can be run again.

MESSAGE: CVT ENTRIES EXCEED DEFINED LIMITS - ATTEMPT ABORTED
REMEDIAL ACTION: Notify programming that the CVT exceeds program capacity and that the program will have to be changed to accommodate a larger CVT.

MESSAGE: MISSING ON RECORD - REQUIRED FOR EPA REPORTING
REMEDIAL ACTION: None. This is used to notify the user that a data element is missing and needs to be entered for EPA reporting.

ENAC020 - Enforcement Actions File (EAF) Selection

a. Function

This program will search the Enforcement Actions File (EAF) and select specific records for the Enforcement Actions Condensed Report and the Enforcement Actions Case History Report based upon user-defined selection criteria.

b. Inputs:

Enforcement Actions File (EAF)

Data Element Table (DET)

c. Processing Options:

PROC (ENAC.105)

SORT (ENAC.106)

SEL1 (ENAC.107)

SEL2 (ENAC.108)

d. Outputs:

Enforcement Actions Case History File

Standard Selection Statistics Report (MSIS.306 and 309)

e. I/O Chart

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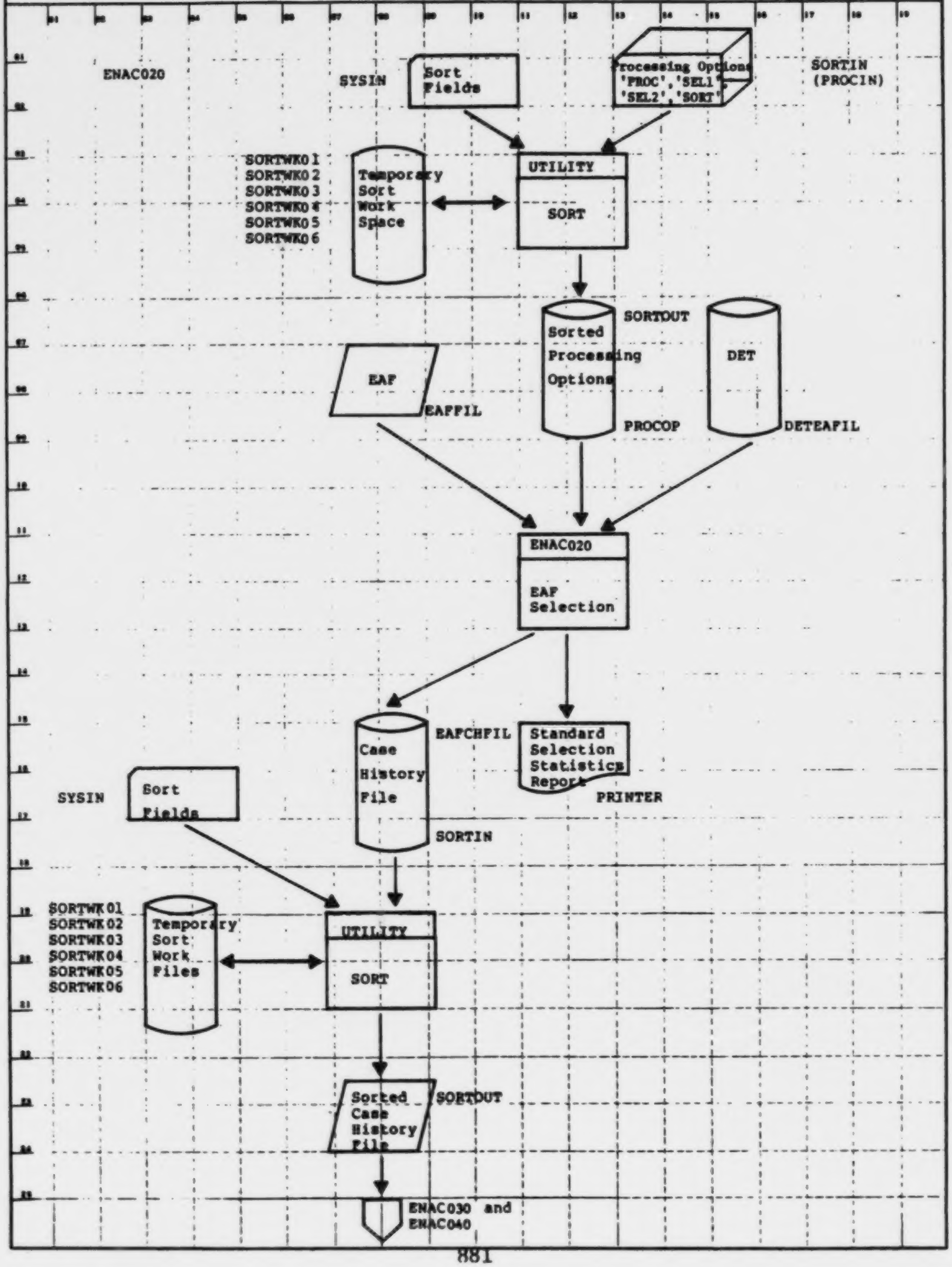
Fold to here.

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______



ENAC020
SYSIN
Sort Fields
Processing Options 'PROC','SEL1', 'SEL2','SORT'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Space
UTILITY
SORT
SORTOUT
Sorted Processing Options
PROCOP
DET
DETEAFIL
EAF
EAFFIL
ENAC020
EAF Selection
EAFCHFIL
Case History File
SORTIN
Standard Selection Statistics Report
PRINTER
SYSIN
Sort Fields
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Case History File
SORTOUT
ENAC030 and ENAC040

Fold under at dotted line.

Fold under at dotted line.

f. ENAC020 - Error Messages and Remedial Actions:

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records and for SEL1 and SEL2 Records.

MESSAGE: ERROR - NO EA DATA ELEMENT TABLE WAS PROVIDED
REMEDIAL ACTION: Mount DET and rerun job.

MESSAGE: CONDENSED REPORT OPTION INVALID, DEFAULTING TO N
REMEDIAL ACTION: None. The Condensed Report will not be produced.

MESSAGE: CASE HISTORY REPT OPTION INVALID, DEFAULTING TO N
REMEDIAL ACTION: None. The Case History Report will not be produced.

ENAC030 - Case History Report

a. Function

This program will produce the Enforcement Actions Case History Report.

b. Inputs:

Enforcement Actions Case History File

Code Value Table (CVT)

Public Water Table (PWT)

c. Processing Options:

None

d. Outputs:

Enforcement Actions Case History Report (ENAC.300)

e. I/O Chart

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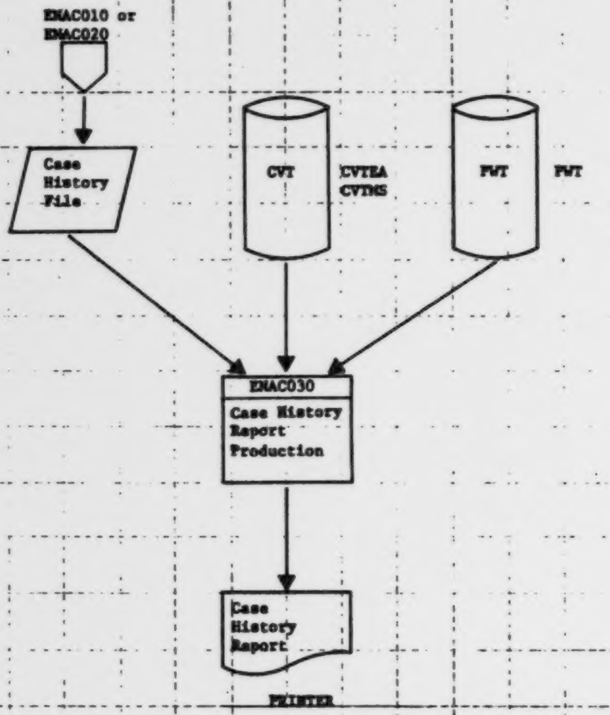
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

ENAC030


ENAC010 or
ENAC020
Case
History
File
CVT
CVTEA
CVTMS
FWT
FWT
ENAC030
Case History
Report
Production
Case
History
Report
PRINTER

Fold under at dotted line.

f. ENAC030 - Error Messages and Remedial Actions

None.

ENAC040 - Condensed Report

a. Function

This program will produce the Enforcement Actions Condensed Report.

b. Inputs:

Enforcement Actions Case History File

c. Processing Options:

None

d. Outputs:

Enforcement Actions Condensed Report (ENAC.301)

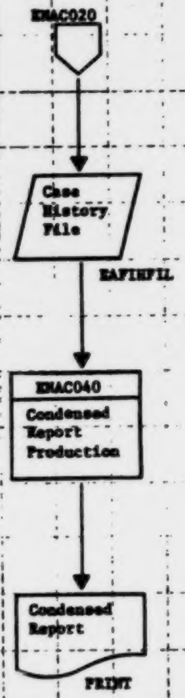
e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

EMAC040


EMAC020
Case History File
EAFINFIL
EMAC040
Condensed Report Production
Condensed Report
PRINT

Fold to here.

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f. ENAC040 - Error Messages and Remedial Actions:

None.

Sanitary Survey Subsystem (SRVY)

General Description

The Sanitary Survey Subsystem (SRVY) is an optional subsystem designed to satisfy Section 142.10 (B)(2) of the Drinking Water Standards Implementation Regulations in which enforcement responsibility must have "A systematic program for conducting sanitary survey compliance...."

A survey of 24 states shows that many states do not have enough manpower to survey as they would like. The addition of non-community Public Water Systems (PWS's) to those already under regulation, will increase the need for a systematic method of scheduling sanitary surveys. The Sanitary Survey Subsystem is designed to provide this systematic method.

The method is based on assigning different weights to five parameters: PWS type, size of population served, the type of source water a PWS has, compliance history, and period elapsed since last survey. State officials can change the relative weights until a satisfactory formula is reached.

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

SRVYREPT - Sanitary Survey Report

PROC Name: SRVYREPT

Function: The production of reports for scheduling sanitary surveys.

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step sorts the Violations File into the proper sequence for processing.

Step 3: This step executes program SRVY010 which produces the Survey Priority File and the Survey Schedule File.

Step 4: This step sorts the Survey Priority File into the proper sequence for processing.

Step 5: This step sorts the Survey Schedule File into the proper sequence for processing.

Step 6: This step executes program SRVY020 which produces the Survey Priority Report and the Survey Schedule Report.

Step 7: This step sorts the processing options into the proper sequence for processing.

Step 8: This step executes program PWSI060 which can produce the Comprehensive Report and/or the Turnaround Document Public Water System Status and Entry Form.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB SRVYREPT

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Sanitary Survey Reporting		

STEP	**REPORT(S) PRODUCED**		**EST.# OF PAGES**	**#OF PARTS AND/OR FORM#**	**CARRIAGE TAPE**	**RESTART PROCEDURE**	**DELOCATE**	**BURST**	**TRIM**	**SEND OUT-PUT TO**
	EXHIBIT #	**NAME**								
1	---	---	---	---	---	1	---	---	---	---
2	---	---	---	---	---	2	---	---	---	---
3	MSIS.309	Standard Error Report	---	---	STD	3	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	---	---	STD	---	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	---	---	---	---	---	5	---	---	---	---
6	SRVY.300	Sanitary Survey Priority Report	---	---	STD	6	---	---	---	Requestor

PAGE 1 OF 3

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB SRVYREPT

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Sanitary Survey Reporting		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	SRVY.301	Sanitary Survey Schedule Report	---	---	STD	---	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	PWSI.303	Comprehensive Report	---	---	STD	8	---	---	---	---
	PWSI.400 PWSI.401	PAGE 1 OF: PAGE 2 OF: Public Water File (PWF) Record Creation and Maintenance Form (Turnaround Document)	---	8 lines per inch #MS01 - 1 Part	--- ---	--- ---	--- ---	--- ---	--- ---	Requestor Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB SRVYREPT

RUN FREQUENCY: Upon Request | JOB DUE OUT

JOB DESCRIPTION: Sanitary Survey Reporting

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
	MSIS.309	Standard Error Report	---	---	STD	---	---	---	---	Requestor
	MSIS.311	Standard Sort Sequence Report	1	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	(PROC)	SRVY.100	YES*	Contains the Processing Date and other criteria
		(SORT)	SRVY.101	OPTIONAL*	Identifies fields by which fields are sorted

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT (PROC)	SRVY.100	YES	Contains sorted Processing Options
	(SORT)	SRVY.101	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Sorts the Violation File using Sort10

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTIN	WAQC.255	YES	Contains the Violations File

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Violation File using Sort10

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	SORTOUT	WAQC.255	YES	Contains the sorted Violations File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes SRVY010 which produces the Survey Priority File and the Survey Schedule File	

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
3	PWF		PWSI.200	YES	Contains the Public Water File
	CVT		MSIS.206	YES	Contains the Model States Code Value Table
	DET		MSIS.201	YES	Contains the Public Water Data Element Table
	VIF		WAQC.255	YES	Contains the sorted Violations File
	PROCOP	(PROC) (SORT)	SRVY.100 SRVY.101	YES YES	Contains the sorted Processing Options

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes SRVY010 which produces the Survey Priority File and the Survey Schedule File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.311 MSIS.309	YES YES	Prints the Standard Sort Sequence Report
	PRIFIL	SRVY.203 SRVY.204	YES YES	Contains the Survey Priority File
	SCHFIL	SRVY.205	YES	Contains the Survey Schedule File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Survey Priority File using Sort13	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	SRVY.203	YES	Contains the Survey Priority File
		SRVY.204	YES	

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Survey Priority File using Sort13

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	SRVY.203	YES	Contains the sorted Survey Priority File
		SRVY.204	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the Survey Schedule File using Sort13

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN	SRVY.205	YES	Contains the Survey Schedule File

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Survey Schedule File using Sort13

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	SRVY.205	YES	Contains the sorted Survey Schedule File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes SRVY020 which produces the Survey Priority Report and the Survey Schedule Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PWF	PWSI.200	YES	Contains the Public Water File
	PRIFIL	SRVY.203 SRVY.204	YES YES	Contains the sorted Survey Priority File
	SCHFIL	SRVY.205	YES	Contains the sorted Survey Schedule File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes SRVY020 which produces the Survey Priority Report and the Survey Schedule Report

STEP	OUTPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
6	TYPE		PWSI.200	YES	Contains the Public Water Type File
	PROCOP	(PROC)	SRVY.100	YES	Contains the Processing Options File
		(SORT)	SRVY.101	YES	
	PRINTER		SRVY.300	YES	Prints the Sanitary Survey Priority Report
			SRVY.301	YES	Prints the Sanitary Survey Schedule Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Sorts the Processing Options using Sort06

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN (PROC)	SRVY.100	OPTIONAL*	Contains the Processing Options
	(SORT)	SRVY.101	OPTIONAL*	
	(RESTART)	SRVY.105	OPTIONAL*	
		SRVY.100	OPTIONAL	Contains the Processing Options File
		SRVY.101	OPTIONAL	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Processing Options using Sort06

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT (PROC)	PWSI.105	YES	
	(SORT)	PWSI.100	YES	Contains the sorted Processing Options
	(RESTART)	PWSI.105	YES	

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Executes PWSI060

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	DETREC	MSIS.201	YES	Contains the Public Water Data Element Table
	PWFTYPE	PWSI.200	YES	Contains the Public Water Type File
	OPTIONS (PROC)	PWSI.105	YES	Contains the sorted Processing Options
	(SORT)	PWSI.100	YES	
	(RESTART)	PWSI.105	YES	

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job SRVYREPT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes PWSI060

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINT1	PWSI.303	OPTIONAL	Prints the Comprehensive Report
		MSIS.309 MSIS.311	OPTIONAL OPTIONAL	Prints the Standard Sort Sequence Report
	PRINT2	PWSI.400	OPTIONAL	Prints the turnaround documents - Public Water System Status and Entry form

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SRVYPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SRVYPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 1 OF 8

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.SRVYPRC1 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPVIF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPVIF MSIS.SRVYPRC1 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 2 OF 8

MODEL STATE INFORMATION SYSTEM
RESTART PROCEDURES
FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.SRVYPRC1 MSIS.TEMPVIF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SRVYPRTY MSIS.SRVYSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPVIF MSIS.SRVYPRC1 MSIS.SRVYPRTY MSIS.SRVYSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 3 OF 8

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.SRVYPRTY If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSRPR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSRPR MSIS.SRVYSCHD B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 4 OF 8

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.SRVYSCHD If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPSRSC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPSRSC MSIS.TEMPSRPR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.TEMPSRPR MSIS.TEMPSRSC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SRVYPRC2 MSIS.PWFTYPE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SRVYPRC2 MSIS.PWFTYPE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PAGE 6 OF 8

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.SRVYPRC2 If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.SRVYPRC3 B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SRVYPRC3 MSIS.PWFTYPE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB SRVYREPT

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.SRVYPRC3 MSIS.PWFTYPE If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SRVYPRC3 MSIS.PWFTYPE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

SRVY010 - Survey Scheduling

a. Function

This program will read the Public Water File (PWF) and the Violations File (VIF) to determine which Public Water Systems (PWS's) require sanitary surveys. It will then produce the Sanitary Survey Priority Report records and the Sanitary Survey Scheduling Report records.

b. Inputs:

Public Water File (PWF)

Violations File (VIF)

Data Element Table (DET)

Code Value Table (CVT)

c. Processing Options:

PROC (SRVY.100)

SORT (SRVY.101)

d. Outputs:

Survey Priority File

Survey Schedule File

Standard Sort Sequence Report (MSIS.309 & 311)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ________ Date ________ Page ____ of ____

Procedure ________ Drawn By ________

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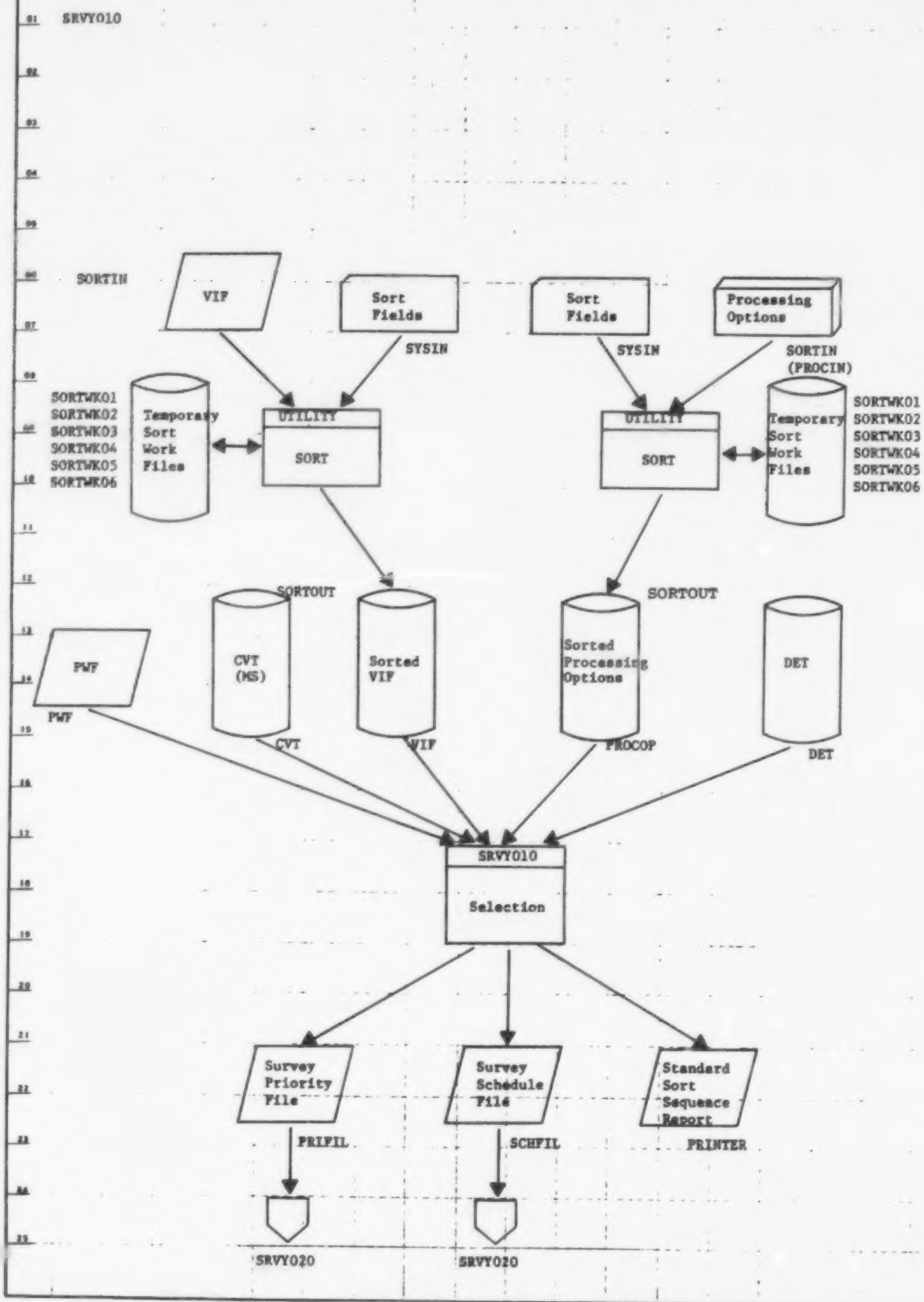
SRVY010
SORTIN
VIF
Sort Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sort Fields
SYSIN
Processing Options
SORTIN (PROCIN)
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
SORTOUT
SORTOUT
PWF
PWF
CVT (MS)
CVT
Sorted VIF
VIF
Sorted Processing Options
PROCOP
DET
DET
SRVY010
Selection
Survey Priority File
PRIFIL
Survey Schedule File
SCHFIL
Standard Sort Sequence Report
PRINTER
SRVY020
SRVY020

f. SRYV010 - Error Messages and Remedial Actions:

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records and SORT Records.

MESSAGE: ERROR - NO PW DATA ELEMENT TABLE WAS PROVIDED
REMEDIAL ACTION: Mount DET and rerun job.

MESSAGE: ERROR - NO CODE VALUE TABLE WAS PROVIDED
REMEDIAL ACTION: Mount CVT and rerun job.

MESSAGE: ERROR - PROC RECORDS NON-NUMERIC SELECTION WEIGHT
REMEDIAL ACTION: Check for keypunch errors, if none, return option to data entry for corrections. Obtain new options from data entry and use it to rerun job.

MESSAGE: ERROR - SELECTION WEIGHT SUM GREATER THAN TEN
REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: SELECTION WEIGHT IS BLANK, DEFAULT TO 0.0
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: ERROR - SURVEYING CAPACITY NON-NUMERIC AND NON-BLANK
REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: PRIORITY OPTION IS BLANK, DEFAULTING TO 1
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: ERROR - PRIORITY OPTION NOT 1, 2, 3, or BLANK
REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

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best available copy.

MESSAGE: ERROR - PRIORITY OPTION = 3, NO SURVEYING CAPACITY

REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: ERROR - PROC RECORD CONTAINS INVALID REGION ID

REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: ERROR - PROC RECORD CONTAINS INVALID DISTRICT ID

REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: SCHEDULE REPORT OPTION INVALID, DEFAULTING TO N

REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: ERROR - PWF REPORT OPTION NOT 1, 2, 3, OR BLANK

REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: PWF REPORT OPTION BLANK, DEFAULTING TO 1

REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: PRIORITY REPORT OPTION INVALID, DEFAULTING TO N

REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: ERROR - PRIORITY REPORT OPTION NOT 1, 2, 3 OR BLANK

REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

Reproduced from best available copy.

MESSAGE: ERROR - SORT PROCESSING RECORDS ARE REQUIRED
REMEDIAL ACTION: SORT options were not supplied for this run. Obtain SORT options from data entry and rerun job.

MESSAGE: ERROR - SCHEDULE REPORT OPTION NOT 1, 2, 3, or BLANK
REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

MESSAGE: REGION VALUE ON PROC CARD WILL BE IGNORED
REMEDIAL ACTION: None. This is used to notify the user that the region specified in the PROC option was not used.

MESSAGE: DISTRICT VALUE ON PROC CARD WILL BE IGNORED
REMEDIAL ACTION: None. This is used to notify the user that the district specified in the PROC option was not used.

MESSAGE: ERROR - REGION AND/OR DISTRICT VALUES ARE REQUIRED
REMEDIAL ACTION: Check for keypunch errors, if none, return to data entry for correction. Obtain new option from data entry and use it to rerun job.

SRVY020 - Scheduling Report

a. Function

This program will produce the Sanitary Survey Priority Report, the Sanitary Survey Schedule Report and a file of corresponding records from the Public Water File (PWF) to be used with program module PWSI060.

b. Inputs:

Survey Priority File

Survey Schedule File

Public Water File (PWF)

c. Processing Options:

None

d. Outputs:

Public Water Type File

Processing Options File

Sanitary Survey Priority Report (SRVY.300)

Sanitary Survey Schedule Report (SRVY.301)

e. I/O Chart

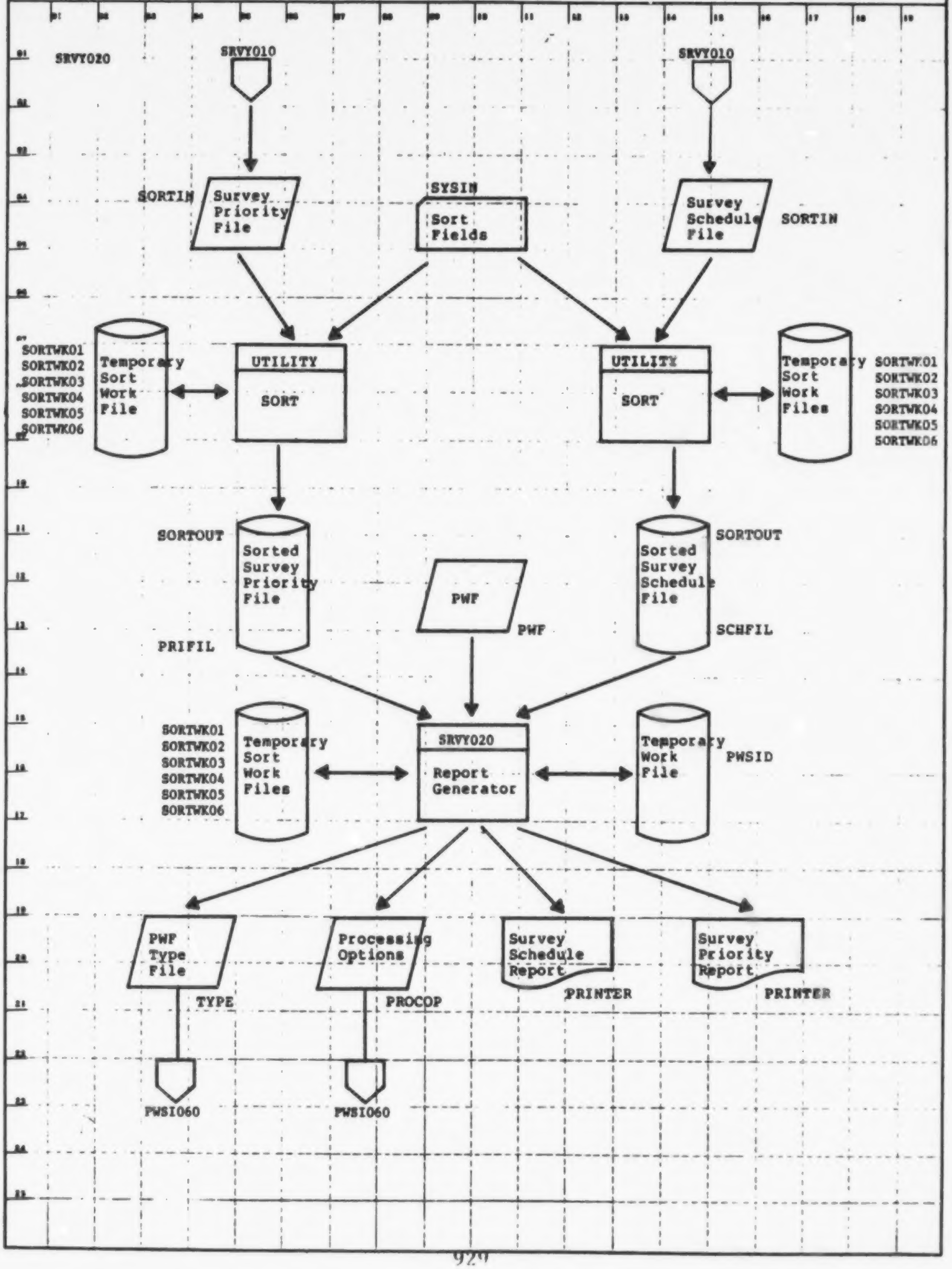
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______

Fold to here.

Fold under at dotted line.


SRVY020
SRVY010
SRVY010
SORTIN
Survey Priority File
SYSIN
Sort Fields
Survey Schedule File
SORTIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work File
UTILITY
SORT
UTILITY
SORT
Temporary Sort Work Files
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
SORTOUT
Sorted Survey Priority File
PRIFIL
PWF
PWF
SORTOUT
Sorted Survey Schedule File
SCHFIL
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
SRVY020
Report Generator
Temporary Work File
PWSID
PWF Type File
TYPE
Processing Options
PROCOP
Survey Schedule Report
PRINTER
Survey Priority Report
PRINTER
PWSI060
PWSI060

f. SRVY020 - Error Messages and Remedial Actions:

None.

Operator and Mailing Subsystem (OPER)

General Description

The Operator and Mailing Subsystem (OPER) is an optional subsystem designed for two purposes: first, to provide management with data concerning certified operators, and second, to provide the state with the capability to manage a mailing distribution list for mailing material to local governments, cities, consulting engineers, etc. Since the mailing list and operator data requirements are similar, these two functions are combined in a single subsystem.

Subsystem Flow

This section describes in detail the operational procedures that compose this subsystem. They are arranged in alphabetical order. Each "PROC" contains a step by step description of the function of the job stream. Included are Operation Instructions showing the file input and output and the output reports. Restart procedures are also included in a step by step process so that the operator will be able to know which files are to be scratched and which are to be saved before the job can be rerun.

This subsystem contains the following PROC's:

OPERSELT - OMF Select

OPERUPDT - OMF Update

PROC Name: OPERSELT

Function: The selection of records from the Operator and Mailing File (OMF).

Step 1: This step sorts the processing options into the proper sequence for processing.

Step 2: This step executes program OPER020 which selects records from the Operator and Mailing File (OMF).

Step 3: This step sorts the Operator Report File into the proper sequence for processing. For SYSIN, use PROCLIB (SORT06) if streamed with OPER010; use PROCLIB (SORT07) if streamed with OPER020.

Step 4: This step executes program OPER030 which produces the Operators Activity Report or the Certified Operators Report.

Step 5: This step sorts the Distribution Report File into the proper sequence for processing. For SYSIN, use PROCLIB (SORT06) if streamed with OPER010; use PROCLIB (SORT08) if streamed with OPER020.

Step 6: This step executes program OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report.

Step 7: This step sorts the Mailing Label File into the proper sequence for processing.

Step 8: This step executes program OPER050 which produces the set(s) of mailing labels.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB OPERSELT

RUN FREQUENCY: Upon Request	JOB DUE OUT
JOB DESCRIPTION: Operator and Mailing File (OMF) Selection	

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.306	Standard Selection Statistics/ Sort Sequences Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
3	---	---	---	---	---	3	---	---	---	---
4	---	---	---	---	---	4	---	---	---	---
	OPER.301	Certified Operators Report	---	---	STD	---	---	---	---	Requestor
5	---	---	---	---	---	5	---	---	---	---

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB OPERSELT

RUN FREQUENCY: Upon Request		JOB DUE OUT
JOB DESCRIPTION: Operator and Mailing File (OMF) Selection		

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUTPUT TO
	EXHIBIT #	NAME								
6	OPER.302	Mailing Distribution Report	---	---	STD	6	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	OPER.304	Mailing Labels	---	3-up Labels	Labels	8	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Processing Options using Sort06	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN (PROC)	OPER.102	YES*	Contains Processing Date and other criteria
	(SORT)	OPER.103	OPTIONAL*	Identifies fields by which outputs are sorted
	(SEL1)	OPER.104	YES*	Identifies fields to be selected
	(SEL2)	OPER.105	YES*	Supplies relational operands which are applied to the selected fields

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts Processing Options using Sort06

STEP	OUTPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	(PROC)	OPER.102	YES	Contains sorted PROC, SEL1, SEL2, and Sort entries
		(SEL1)	OPER.104	YES	
		(SEL2)	OPER.105	YES	
		(SORT)	OPER.103	YES	

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER020 which selects records from the Operator and Mailing File (OMF)

STEP	INPUT DDNAME		EXHIBIT #	REQUIRED	PURPOSE
2	DETOMFIL		MSIS.201	YES	Contains the Operator and Mailing Data Element Table
	PWTIFIL		PWSI.201	YES	Contains the Public Water Table
	PROCOP	(PROC)	OPER.102	YES	Contains sorted PROC, SEL1, SEL2, and Sort Entries
		(SEL1)	OPER.104	YES	
		(SEL2)	OPER.105	YES	
		(SORT)	OPER.103	YES	
	OMFFIL		OPER.200	YES	Contains the Operator and Mailing File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER020 which selects records from the Operator and Mailing File (OMF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	OMFORFIL	OPER.205 OPER.206	OPTIONAL OPTIONAL	Contains the Operator Report File
	OMFDRFIL	OPER.206 OPER.208	OPTIONAL OPTIONAL	Contains the Distribution Report File
	OMFMLFIL	OPER.111 OPER.115	OPTIONAL OPTIONAL	Contains the Mailing Label File
	PRINTER	MSIS.306 MSIS.309	YES YES	Prints the Standard Selection Statistics Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Operator Report File using Sort07 or Sort06 depending on stream

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTIN	OPER.205 OPER.206	OPTIONAL OPTIONAL	Contains the Operator Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Operator Report File using Sort07 or Sort06 depending on stream

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	SORTOUT	OPER.205 OPER.206	OPTIONAL OPTIONAL	Contains sorted Operator Report File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER030 which produces the Operators Activity Report or the Certified Operators Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	ORF	OPER.205 OPER.207	OPTIONAL OPTIONAL	Contains the sorted Operator Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER030 which produces the Operators Activity Report or the Certified Operators Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	PRINTER	OPER.300	OPTIONAL	Operators Activity Report
		OPER.301	OPTIONAL	Certified Operators Report

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Distribution Report File using either Sort06 or Sort08	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTIN	OPER.206	OPTIONAL	Contains the Distribution Report File
		OPER.208	OPTIONAL	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Distribution Report File using either Sort06 or Sort08

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	SORTOUT	OPER.206	OPTIONAL	Contains the sorted Distribution Report File
		OPER.208	OPTIONAL	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DRF	OPER.206 OPER.208	OPTIONAL OPTIONAL	Contains the sorted Distribution Report File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	OPER.303	OPTIONAL	Prints the Addressee Activity Report
		OPER.302	OPTIONAL	Prints the Mailing Distribution Report

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Sorts the Mailing Label File using Sort09	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN	OPER.211	OPTIONAL	Contains the Mailing Label File
		OPER.215	OPTIONAL	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Mailing Label File using Sort09

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	OPER.211	OPTIONAL	Contains the sorted Mailing Label File
		OPER.215	OPTIONAL	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION:
Executes OPER050 which produces the set(s) of Mailing Labels

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	OMFIN	OPER.211	OPTIONAL	Contains the sorted Mailing Label File
		OPER.215	OPTIONAL	

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERSELT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes OPERU50 which produces the set(s) of Mailing Labels	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINTER	OPER.304	OPTIONAL	Prints Mailing Labels

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERPROC B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

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MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.OPERPROC If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPEROPRT MSIS.OPERDIRT MSIS.OPERMAIL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPEROPRT MSIS.OPERDIRT MSIS.OPERMAIL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.OPEROPRT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMOR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPOMOR MSIS.OPERDIRT MSIS.OPERMAIL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB: OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMOR If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERMAIL MSIS.OPERDIRT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.CPERDIRT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMDR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERMAIL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMDR If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERMAIL B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.OPERMAIL If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMMA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMMA B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERSELT

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMMA If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

PROC Name:	OPERUPDT
Function:	The creation and update of records in the Operator and Mailing File (OMF).
Step 1:	This step sorts the input transactions for the operator and mailing file into the proper sequence for processing.
Step 2:	This step executes program OPER010 which updates the Operator and Mailing File (OMF).
Step 3:	This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).
Step 4:	This step sorts the Standard History File (SHF) updates into the proper sequence for processing. Sort fields = (1,15,CH,A)
Step 5:	This step executes program MSIS020 and merges the Standard History File updates with the existing SHF.
Step 6:	This step executes program MSIS010 which creates the Standard Error Report from the Standard Error File (SEF).
Step 7:	This step sorts the operator report file into the proper sequence for processing. For SYSIN, use PROCLIB (SORT06) if streamed with OPER010. Sort fields = (1,6,CH,A). Use PROCLIB (SORT07) if streamed with OPER020.
Step 8:	This step executes program OPER030 which produces the Operators Activity Report or the Certified Operators Report.
Step 9:	This step sorts the Distribution Report File into the proper sequence for processing. For SYSIN, use PROCLIB (SORT06) if streamed with OPER010. Sort fields = (1,6,CH,A). Use PROCLIB (SORT08) if streamed with OPER020.
Step 10:	This step executes program OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report.

MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB OPERUPUT

RUN FREQUENCY: Upon Request | **JOB DUE OUT**

JOB DESCRIPTION: Operator and Mailing File (OMF) Update

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
1	---	---	---	---	---	1	---	---	---	---
2	MSIS.300	Standard Update Statistics Report	1	---	STD	2	---	---	---	Requestor
	MSIS.309	Standard Error Report	1	---	STD	---	---	---	---	Requestor
3	MSIS.313	Data Entry Error Report	---	---	STD	3	---	---	---	Requestor
4	---	---	---	---	---	4	---	---	---	---
5	MSIS.300	Standard Update Statistics Report	1	---	STD	5	---	---	---	Requestor
	MSIS.301	Standard History	---	---	STD	---	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

OPERATIONS INSTRUCTIONS

FOR JOB OPERUPDT

RUN FREQUENCY: Upon Request | JOB DUE OUT

JOB DESCRIPTION: Operator and Mailing File (OMF) Update

STEP	REPORT(S) PRODUCED		EST.# OF PAGES	#OF PARTS AND/OR FORM#	CARRIAGE TAPE	RESTART PROCEDURE	DELOCATE	BURST	TRIM	SEND OUT-PUT TO
	EXHIBIT #	NAME								
		Update Report								
6	MSIS.313	Data Entry Error Report	---	---	STD	6	---	---	---	Requestor
7	---	---	---	---	---	7	---	---	---	---
8	OPER.300	Operators Activity Report	---	---	STD	8	---	---	---	Requestor
9	---	---	---	---	---	9	---	---	---	---
10	OPER.303	Addressees Activity Report	---	---	STD	10	---	---	---	Requestor

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts Input Transactions for the Operator and Mailing File using Sort10

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTIN	OPER.100	YES*	Contains the Input Transactions for the Operator and Mailing File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts Input Transactions for the Operator and Mailing File using Sort10	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
1	SORTOUT	OPER.100	YES	Contains the sorted input transactions for the Operator and Mailing File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION:
Executes OPER010 which updates the Operator and Mailing File

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	OMCVT	MSIS.206	YES	Contains the Operator and Mailing Code Value Table
	MSCVT	MSIS.206	YES	Contains the Model State Code Value Table
	PWTFILE	PWSI.201	YES	Contains the Public Water Table
	TRANSACT	OPER.100	YES	Contains sorted input transactions for the Operator and Mailing File
	OMFILE	OPER.200	YES	Contains the Operator and Mailing File
	PROCFILE	OPER.101	YES*	Contains Processing Date and other criteria

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER010 which updates the Operator and Mailing File

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
2	PRINTER	MSIS.300 MSIS.309	YES YES	Prints the Standard Update Statistics Report
	OMOFILE	OPER.200	OPTIONAL	Contains the Operator and Mailing File.
	STANHIST	MSIS.202 MSIS.213	OPTIONAL OPTIONAL	Contains the Standard History File
	STANDERR	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File
	OPERRPT	OPER.205 OPER.207	OPTIONAL OPTIONAL	Contains the Operators Report File
	DISTRRPT	OPER.206 OPER.206	OPTIONAL OPTIONAL	Contains the Distribution Report File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	DETFIL	MSIS.201	YES	Contains the Operator and Mailing Data Element File
	EMTFIL	MSIS.205	YES	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
3	PRINTER	MSIS.313	YES	Prints the Data Entry Form Report
	ERROR	MSIS.215	OPTIONAL	Optional Error File

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MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Sorts the Standard History File (SHF) Updates using Sort01

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTIN	MSIS.202	OPTIONAL	Contains the Standard History File (SHF) Updates
		MSIS.213	OPTIONAL	

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Standard History File (SHF) Updates using Sort01	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
4	SORTOUT	MSIS.202	OPTIONAL	Contains sorted Standard History File (SHF) Updates
		MSIS.213	OPTIONAL	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY:	**JOB DUE OUT**
JOB DESCRIPTION: Executes MSIS020 and merges the Standard History File Updates with the Existing SHF	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	DETFIL	MSIS.201	YES	Contains the Operator and Mailing Data Element Table
	DETFIL2	MSIS.201	YES	Contains the Violations Data Element Table
	DETFIL3	MSIS.201	YES	Contains the Enforcement Actions Data Element Table
	DETFIL4	MSIS.201	YES	Contains the Variances and Exemptions Data Element Table
	SHFXACT	MSIS.202 MSIS.213	YES YES	Contains sorted Standard History File (SHF) Updates
	SHFIN	MSIS.202	YES	Contains the Standard History File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS020 and merges the Standard History File Updates with the Existing SHF

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
5	PRINTER	MSIS.301	YES	Prints the Standard History Report
		MSIS.300	YES	Prints the Standard Update Statistics Report
	SHFOUT	MSIS.202	YES	Contains the Updated Standard History File
	SEFFIL	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	DETFIL	MSIS.201	YES	Contains the Operator and Mailing Data Element Table
	EMTFIL	MSIS.205	YES	Contains the Error Message Table
	SEFFIL	MSIS.207 MSIS.208	YES YES	Contains the Standard Error File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes MSIS010 which creates the Standard Error Report from the Standard Error File (SEF)

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
6	PRINTER	MSIS.313	YES	Prints the Data Entry Error Report
	ERROR	MSIS.215	OPTIONAL	Optional Error File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Operator Report File using either Sort06 or Sort07

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTIN	OPER.205 OPER.207	YES YES	Contains the Operator Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Operator Report File using either Sort06 or Sort07

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
7	SORTOUT	OPER.205 OPER.207	YES YES	Contains the sorted Operator Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes OPER030 which produces the Operator Activity Report or the Certified Operators Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	ORF	OPER.205	YES	Contains the sorted Operator Report File
		OPER.207	YES	

PAGE 1 **OF** 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Executes OPER030 which produces the Operator Activity Report or the Certified Operators Report	

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
8	PRINTER	OPER.300	OPTIONAL	Prints the Operators Activity Report
		OPER.301	OPTIONAL	Prints the Certified Operators Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY:	JOB DUE OUT
JOB DESCRIPTION: Sorts the Distribution Report File using either Sort06 or Sort08	

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTIN	OPER.206	YES	Contains the Distribution Report File
		OPER.208	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Sorts the Distribution Report File using either Sort06 or Sort08

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
9	SORTOUT	OPER.206	YES	Contains the sorted Distribution Report File
		OPER.208	YES	

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: **JOB DUE OUT**

JOB DESCRIPTION: Executes OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report

STEP	INPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	DRF	OPER.206	YES	Contains the sorted Distribution Report File

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

Operations Instructions

For Job OPERUPDT

RUN FREQUENCY: JOB DUE OUT

JOB DESCRIPTION: Executes OPER040 which produces the Addressee Activity Report or the Mailing Distribution Report

STEP	OUTPUT DDNAME	EXHIBIT #	REQUIRED	PURPOSE
10	PRINTER	OPER.303	OPTIONAL	Addressee Activity Report
		OPER.302	OPTIONAL	Mailing Distribution Report

PAGE 1 OF 1

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 1	(1) Check the following data sets to see if they were kept: None If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.OPERTRAN B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1. (2) A. Uncatalog and scratch any of the following data sets that were cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 2	(1) Check the following data sets to see if they were kept: MSIS.OPERTRAN If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.OPERSHF MSIS.OPERDIRT MSIS.OPEROPRT MSIS.OMSEF MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE C. Restart the job from step 2. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OMF DDNAME=OMOFILE MSIS.OPERDIRT MSIS.OPEROPRT MSIS.OMSEF MSIS.OPERSHF B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 3	(1) Check the following data sets to see if they were kept: MSIS.OMSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 3. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERDIRT MSIS.OPEROPRT MSIS.OPERSHF MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 4	(1) Check the following data sets to see if they were kept: MSIS.OPERSHF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMSH MSIS.OPERDIRT MSIS.OPEROPRT MSIS.OMSEF MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 4. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OMF DDNAME=OMOFILE MSIS.OPERDIRT MSIS.OPEROPRT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 5	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMSH If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.OMSEF MSIS.SHF DDNAME=SHFOUT B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.SHF DDNAME=SHFIN C. Restart the job from step 5. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERDIRT MSIS.OPEROPRT MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 6	(1) Check the following data sets to see if they were kept: MSIS.OMSEF If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 6. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERDIRT MSIS.OPEROPRT MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 7	(1) Check the following data sets to see if they were kept: MSIS.OPERPRT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMOR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 7. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERDIRT MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 8	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMOR If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 8. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.OPERDIRT MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

PAGE 8 OF 10

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB OPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 9	(1) Check the following data sets to see if they were kept: MSIS.OPERDIRT If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged: MSIS.TEMPOMDR B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 9. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.TEMPOMDR MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

MODEL STATE INFORMATION SYSTEM

RESTART PROCEDURES

FOR JOB CPERUPDT

RESTART PROCEDURE #	DESCRIPTION
Step 10	(1) Check the following data sets to see if they were kept: MSIS.TEMPOMDR If any of the above data sets were not kept, go to (2) below. If all of the above data sets were kept, then take the following actions: A. Uncatalog and scratch any of the following data sets that are cataloged. None B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers. None C. Restart the job from step 10. (2) A. Uncatalog and scratch any of the following data sets that were cataloged: MSIS.SHF DDNAME=SHFOUT MSIS.OMF DDNAME=OMOFILE B. If any of the following data sets were uncataloged and deleted, recatalog those data sets using the proper volume serial numbers: MSIS.OMF DDNAME=OMFILE MSIS.SHF DDNAME=SHFIN C. Restart the job from step 1.

OPER010 - Operator and Mailing File (OMF) Data Entry and Update

a. Function

This program will update and maintain the Operator and Mailing File (OMF). Additionally, it will produce the Standard History File (SAF), report errors found in OMF update transactions by producing records for the Standard Error File (SEF), and build report files that will include new OMF records, incomplete OMF records, and deleted OMF records.

b. Inputs:

Operator and Mailing File (OMF)

Code Value Table (CVT)

Input Transactions (OPER.100)

Public Water Table (PWT)

c. Processing Options:

PROC (CPER.101)

d. Outputs:

Operator and Mailing File (OMF)

Standard History File (SHF)

Standard Error File (SEF)

Operators Report File

Distribution Report File

Standard Update Statistics Report (MSIS.300 and 309)

e. I/O Chart

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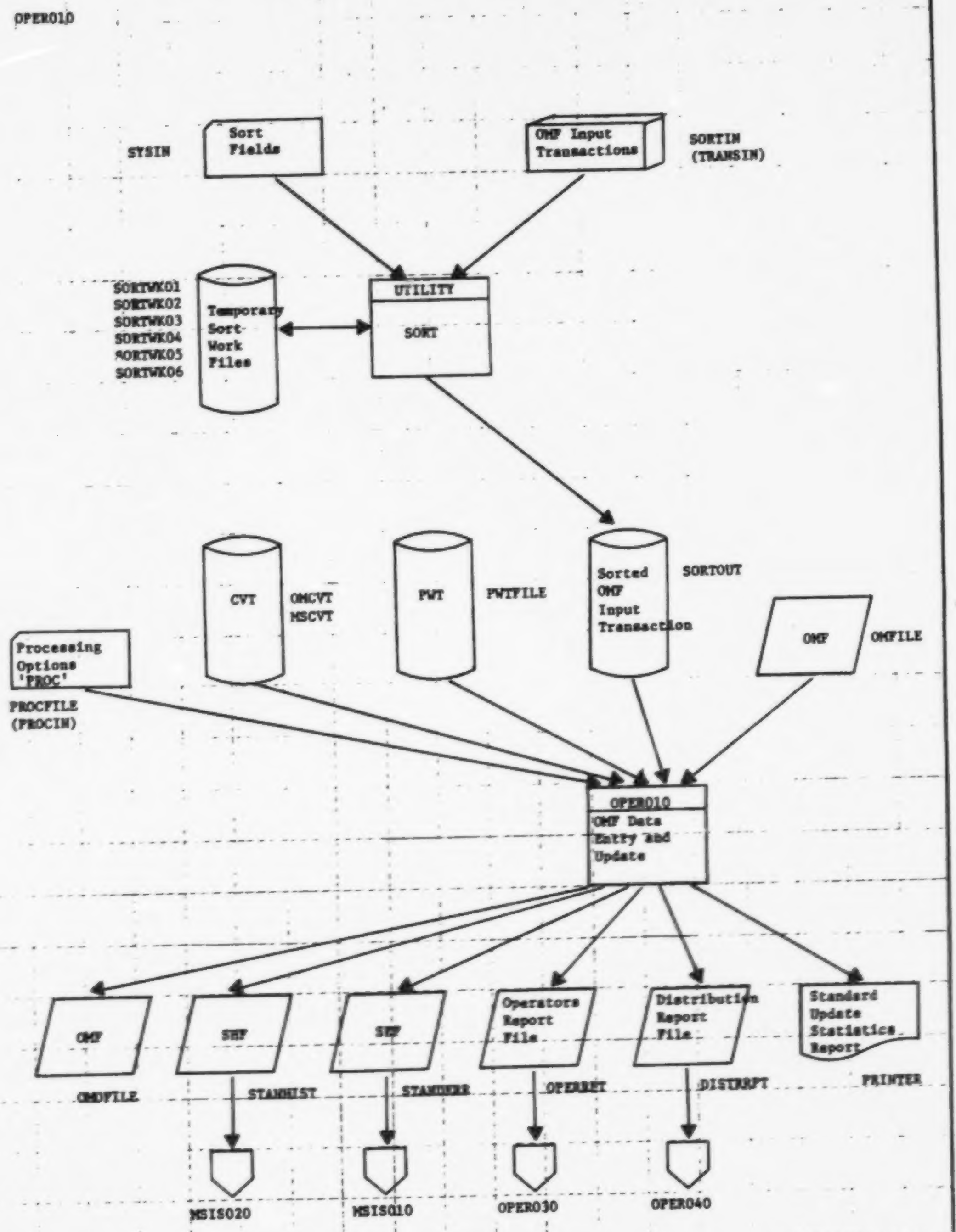
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ____________ Date ____________ Page ____ of ____

Procedure ____________ Drawn By ____________


OPER010
SYSIN
Sort Fields
OMF Input Transactions
SORTIN (TRANSIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort-Work Files
UTILITY
SORT
CVT
OMCVT
MSCVT
PWT
PWTFILE
Sorted OMF Input Transaction
SORTOUT
Processing Options 'PROC'
PROCFILE (PROCIN)
OMF
OMFILE
OPER010
OMF Data Entry and Update
OMF
OMOFILE
SHF
STANHIST
MSIS020
SHF
STANDERR
MSIS010
Operators Report File
OPERRPT
OPER030
Distribution Report File
DISTRRPT
OPER040
Standard Update Statistics Report
PRINTER

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f. OPER010 - Error Messages and Remedial Actions:

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records.

MESSAGE: ERROR - OM CODE VALUE TABLE EXCEEDS LIMIT
REMEDIAL ACTION: Notify programming that the CVT exceeds program capacity and that the program will have to be changed to accommodate a larger CVT.

MESSAGE: ERROR - MS CODE VALUE TABLE EXCEEDS LIMIT
REMEDIAL ACTION: Notify programm that the CVT exceeds program capacity and that the program will have to be changed to accommodate a larger CVT.

MESSAGE: ERROR - NO OM CODE VALUE TABLE WAS PROVIDED
REMEDIAL ACTION: Mount CVT and rerun job.

MESSAGE: ERROR - NO MS CODE VALUE TABLE WAS PROVIDED
REMEDIAL ACTION: Mount CVT and rerun job.

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best available copy.

OPER020 - Operator and Mailing File (OMF) Selection

a. Function

This program will search the Operator and Mailing File (OMF) and select specific records for the Certified Operators Report, the Mailing Distribution Report, mailing labels, and any other state defined reports based upon user-defined criteria.

b. Inputs:

Operator and Mailing File (OMF)

Data Element Table (DET)

c. Processing Options:

PROC (OPER.102)

SORT (OPER.103)

SEL1 (OPER.104)

SEL2 (OPER.105)

d. Outputs:

Operators Report File

Distribution Report File

Mailing Label File

Standard Selection Statistics Report (MSIS.306 and 309)

e. I/O Chart

IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ______ of ______

Procedure ______ Drawn By ______

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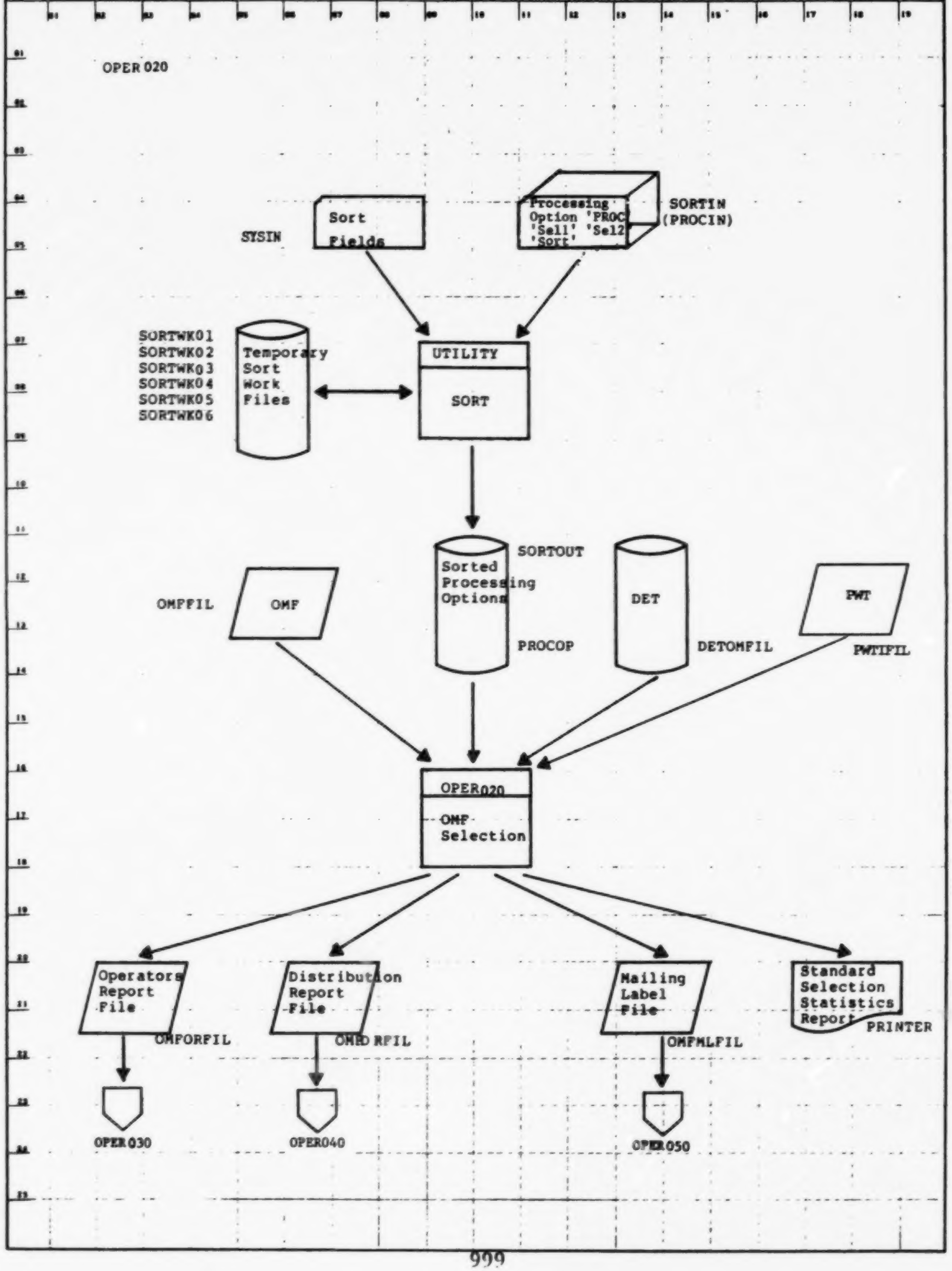
OPER 020
SYSIN
Sort Fields
Processing Option 'PROC 'Sell' 'Sel2 'Sort'
SORTIN (PROCIN)
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Processing Options
PROCOP
OMFFIL
OMF
DET
DETOMFIL
PWT
PWTIFIL
OPER020
OMF Selection
Operators Report File
OMFORFIL
Distribution Report File
OMFDRFIL
Mailing Label File
OMFMLFIL
Standard Selection Statistics Report
PRINTER
OPER030
OPER040
OPER050

f. OPER020 - Error Messages and Remedial Actions:

Any error messages that do not appear below can be found in Standard Error Messages and Remedial Actions for PROC Records and for SEL1 and SEL2 Records.

MESSAGE: ERROR - NO OM DATA ELEMENT TABLE WAS PROVIDED
REMEDIAL ACTION: Mount DET and rerun job.

MESSAGE: NUMBER OF LABELS NOT NUMERIC, DEFAULTING TO 1
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run.

MESSAGE: OPERATORS REPORT OPTION INVALID, DEFAULTING TO N
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run. No Operators Report will be produced.

MESSAGE: DISTRIBUTION REPT. OPTION INVALID, DEFAULTING TO N
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run. No Distribution Report will be produced.

MESSAGE: MAILING LBL. REPT. OPTION INVALID, DEFAULTING TO N
REMEDIAL ACTION: None. This is used to notify the user that the default option was in effect when the job was run. No Mailing Labels will be produced.

OPER030 - Operators Report

a. Function

This program will produce the Certified Operators Report or the Operators Activity Report.

b. Inputs:

Operators Report File

c. Processing Options:

None

d. Outputs:

Operators Activity Report (OPER.300)

Certified Operators Report (OPER.301)

e. I/O Chart

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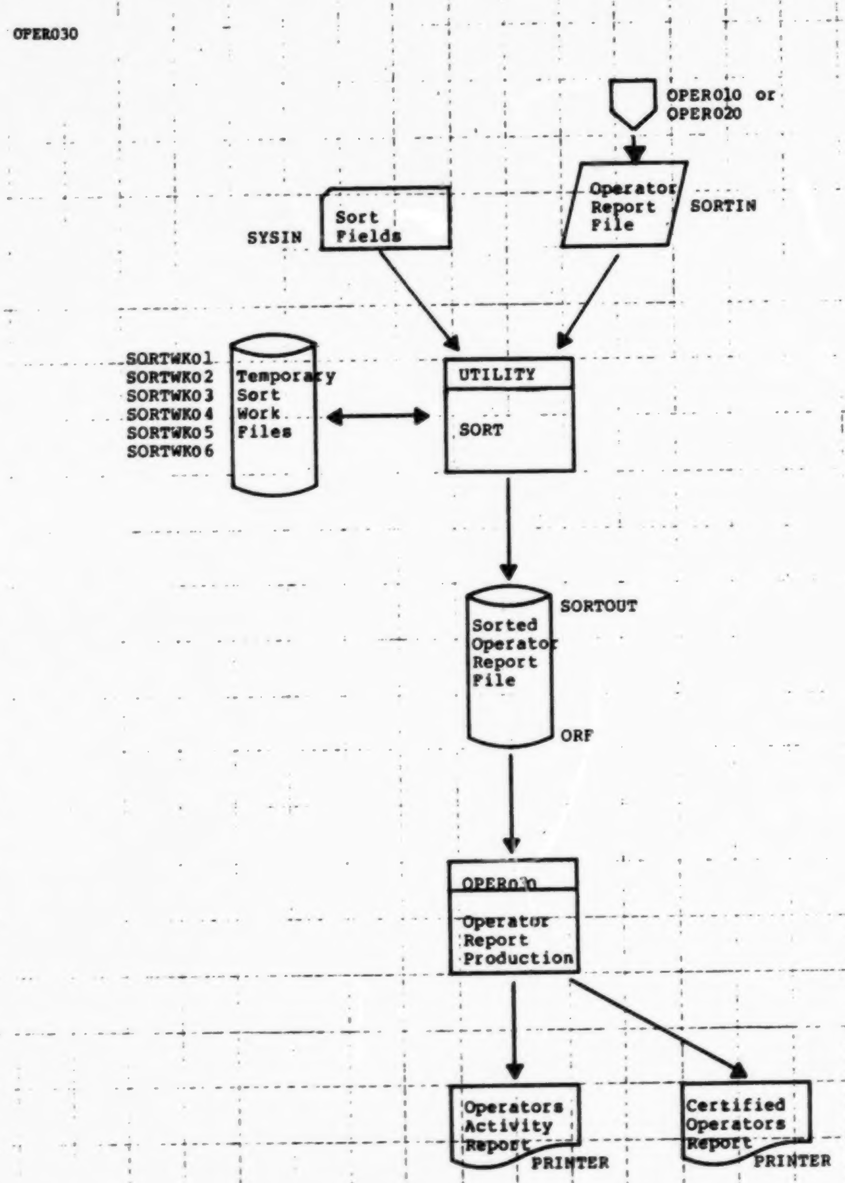
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application	Date	Page of
Procedure	Drawn By	


OPER030
OPER010 or
OPER020
Operator
Report
File
SORTIN
Sort
Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary
Sort
Work
Files
UTILITY
SORT
SORTOUT
Sorted
Operator
Report
File
ORF
OPER030
Operator
Report
Production
Operators
Activity
Report
PRINTER
Certified
Operators
Report
PRINTER

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f. OPER030 - Error Messages and Remedial Actions:

None.

OPER040 - Distribution Report

a. Function

This program will produce the Addressees Activity Report or the Mailing Distribution Report.

b. Inputs:

Distribution Report File

c. Processing Options:

None

d. Outputs:

Addressees Activity Report (OPER.303)

Mailing Distribution Report (OPER.302)

e. I/O Chart

Fold to here.

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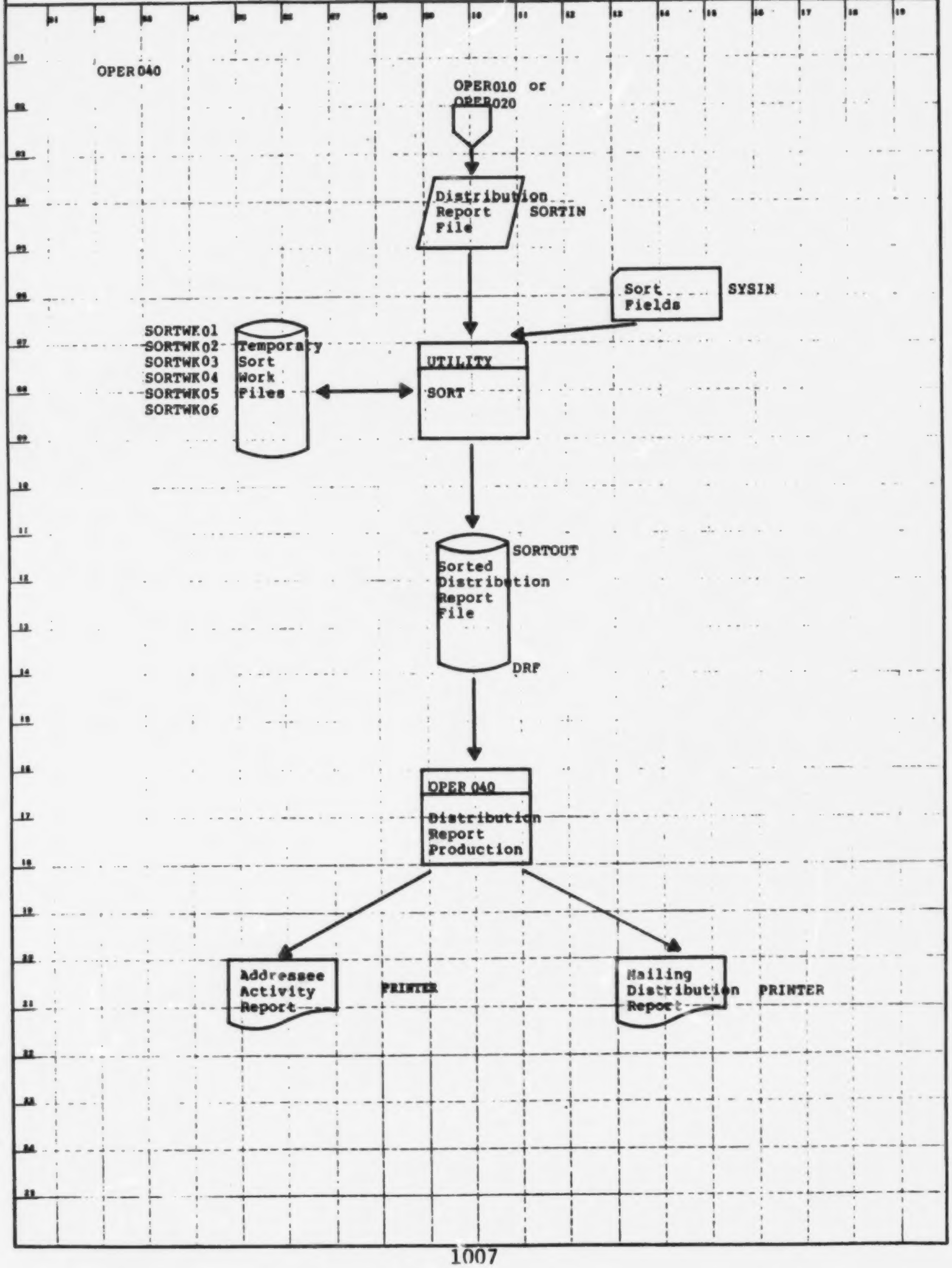
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______


OPER 040
OPER010 or OPER020
Distribution Report File
SORTIN
Sort Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
SORTOUT
Sorted Distribution Report File
DRF
OPER 040
Distribution Report Production
Addressee Activity Report
PRINTER
Mailing Distribution Report
PRINTER

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f. OPER040 - Error Messages and Remedial Actions:

None.

OPER050 - Mailing Labels

a. Function

This program will produce mailing labels for mailing material to local governments, cities, consultants and any other addressee types to be included on a mailing distribution list.

b. Inputs:

Mailing Label File

c. Processing Options:

None

d. Outputs:

Mailing Labels (OPER.304)

e. I/O Chart

Fold to here.

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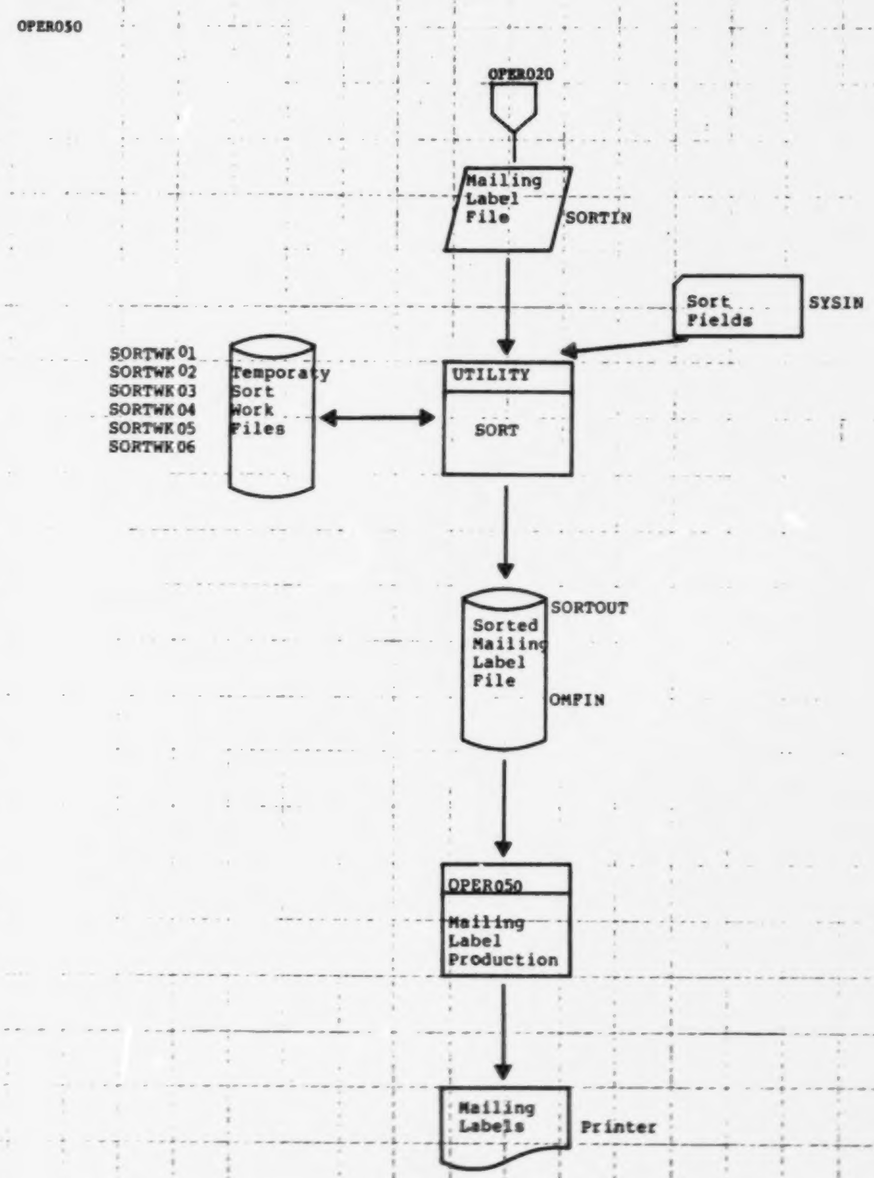
IBM DIAGRAMMING AND CHARTING WORKSHEET

Application ______ Date ______ Page ____ of ____

Procedure ______ Drawn By ______



OPER050
OPER020
Mailing Label File
SORTIN
Sort Fields
SYSIN
SORTWK01
SORTWK02
SORTWK03
SORTWK04
SORTWK05
SORTWK06
Temporary Sort Work Files
UTILITY
SORT
Sorted Mailing Label File
SORTOUT
OMPIN
OPER050
Mailing Label Production
Mailing Labels
Printer

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f. OPER050 - Error Messages and Remedial Actions:

None.

Descriptions of SORT Procedures

This section contains the descriptions of the sort control cards used in the operational procedures of MSIS. There are twenty-four (24) of them. Each sort is shown with its respective control fields followed by the formatted description of the procedures which use it showing the input and output DDNAME's and the Exhibit Number of the respective Record Description of the file being sorted.

Name: SORT01 Number of Lines: 1

Description: Sort Control Card

Sort Fields: 1,15,CH,A

Used by the following procedures:

PROC: ENACUPDT

Step: 1

SORTIN DDNAME: TRANSIN

Exhibit: ENAC.200

SORTOUT DDNAME: ENACTRAN

PROC: ENACUPDT

Step: 4

SORTIN DDNAME: ENACSHF

Exhibit: MSIS.202

SORTOUT DDNAME: TEMPEASH

PROC: MSISCRET

STEP: 1

SORTIN DDNAME: PROCIN

Exhibit: MSIS.205,206,201

SORTOUT DDNAME: TEMPTABL

PROC: OPERUPDT

Step: 4

SORTIN DDNAME: OPERSHF

Exhibit: MSIS.202

SORTOUT DDNAME: TEMPOMSH

Name: SORT01 **Number of Lines:** 1

Description: Sort Control Card

Sort Fields: 1,15,CH,A

PROC: PWSIUPD1

Step: 4

SORTIN DDNAME: PHFTRAN

Exhibit: PWSI.202

SORTOUT DDNAME: PHFTRANS

PROC: VAEXUPDT

Step: 1

SORTIN DDNAME: TRANSIF

Exhibit: VAEX.200 thru 205

SORTOUT DDNAME: VAEXTRAN

PROC: VAEXUPDT

Step: 4

SORTIN DDNAME: VAEXSHF

Exhibit: MSIS.213

SORTOUT DDNAME: TEMPVESH

PROC: WAQCVIFU

Step: 4

SORTIN DDNAME: WAQCSHF

Exhibit: MSIS.202

SORTOUT DDNAME: TEMPVISH

Name: SORT02 Number of Lines: 1

Description: Sort Control Card

Sort Fields: 1,4,CH,A

Used by the following procedures:

PROC: MSISSELT

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: MSIS.204,210,211,212

SORTOUT DDNAME: MSISPROC

PROC: WAQCSAFS

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: WAQC.233,240,241

SORTOUT DDNAME: WAQCPRC2

PROC: WAQCVIFS

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: WAQC.236,237,238

SORTOUT DDNAME: WAQCVIFT

Name: SORT03 Number of Lines: 1

Description: Sort Control Cards

Sort Fields: 1,4,CH,A,122,7,CH,A

Used by the following procedures:

PROC: VAEXUPDT

Step: 7

SORTIN DDNAME: VAEXCOMP

Exhibit: VAEX.209

SORTOUT DDNAME: TEMPVECS

PROC: VAEXUPDT

Step: 9

SORTIN DDNAME: VAEXARRS

Exhibit: VAEX.217

SORTOUT DDNAME: TEMPVECA

Name: SORT04 Number of Lines: 1

Description: Sort Control Card

Sort Fields: 1,30,CH,A

Used by the following procedures:

PROC: VAEXSELT

Step: 3

SORTIN DDNAME: VAEXREPT

Exhibit: VAEX.213

SORTOUT DDNAME: TEMPVERP

Name: SORT05 Number of Lines: 1

Description: Sort Control Card

Sort Fields: 7,30,CH,A

Used by the following procedures:

PROC: ENACSELT

Step: 3

SORTIN DDNAME: ENACCASE

Exhibit: ENAC.203

SORTOUT DDNAME: TEMPEACH

Name: SORT06 Number of Lines: 1

Description: Sort Control Card

Sort Fields: 1,6,CH,A

Used by the following procedures:

PROC: ENACSELT

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: ENAC.211,212,213,214

SORTOUT DDNAME: ENACPROC

PROC: OPERSELT

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: OPER.210,212,213,214

SORTOUT DDNAME: OPERPROC

PROC: OPERSELT

Step: 3

SORTIN DDNAME: OPEROPRT

Exhibit: OPER.205

SORTOUT DDNAME: TEMPOMOR

PROC: OPERSELT

Step: 5

SORTIN DDNAME: OPERDIRT

Exhibit: OPER.206

SORTOUT DDNAME: TEMPOMDR

```
                                                  Page 2 of 10
Name:      SORT06            Number of Lines: 1
Description:     Sort Control Card
           Sort Fields:  1,6,CH,A
      PROC: OPERUPDT
                 Step:  7
           SORTIN DDNAME:    OPEROPRT
                 Exhibit:    OPER.205
           SORTOUT DDNAME:   TEMPOMOR
      PROC: OPERUPDT
                 Step: 9
           SORTIN DDNAME:    OPERDIRT
                 Exhibit:    OPER.206
           SORTOUT DDNAME:   TEMPOMOR
      PROC: PWSISELH
                 Step: 1
           SORTIN DDNAME:    PROCIN
                 Exhibit:    PWSI.212,236,237,239
           SORTOUT DDNAME:   PHFPROC
      PROC: PWSISELT
                 Step:  1
           SORTIN DDNAME:    PROCIN
                 Exhibit:    PWSI.238,236,237
           SORTOUT DDNAME:   PWSIPROC
```

Name: SORT06 **Number of Lines:** 1

Description: Sort control card

Sort Fields: 1,6,CH,A

PROC: PWSISELT

Step: 3

SORTIN DDNAME: PROC30

Exhibit: PWSI.206

SORTOUT DDNAME: PWSIPROC

PROC: PWSISELT

Step: 5

SORTIN DDNAME: PROC40

Exhibit: PWSI.206

SORTOUT DDNAME: PWSIPROC

PROC: PWSISELT

Step: 7

SORTIN DDNAME: PROC 50 OR PROCIN

Exhibit: PWSI.206,200,239

SORTOUT DDNAME: PWSIPROC

PROC: PWSISELT

Step: 9

SORTIN DDNAME: PROC60 or PROCIN

Exhibit: PWSI.204,239,205

SORTOUT DDNAME: PWSIPROC

Name: SORT06 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A

PROC: PWSIUPDI

Step: 5

SORTIN DDNAME: PROCIN

Exhibit: PWSI.208,239

SORTOUT DDNAME: PHFOPTIN

PROC: PWSIUPD2

Step: 1

SORTIN DDNAME: PWSIPRC1 or PROCIN

Exhibit: PWSI.204,239,205

SORTOUT DDNAME: PWSIPRC5

PROC: PWSIUPD2

Step: 3

SORTIN DDNAME: PWSIPRC2 or PROCIN

Exhibit: PWSI.204,239,205

SORTOUT DDNAME: PWSIPRC6

PROC: PWSIUPD2

Step: 5

SORTIN DDNAME: PWSIPRC3 or PROCIN

Exhibit: PWSI.204,239,205

SORTOUT DDNAME: PWSIPRC7

Name: SORT06 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A

PROC: PWSIUPD2

Step: 7

SORTIN DDNAME: PWSIPRC4 or PROCIN

Exhibit: PWSI.204,239,205

SORTOUT DDNAME: PWSIPRC8

PROC: SRVYREPT

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: SRVY.200,201

SORTOUT DDNAME: SRVYPRC1

PROC: SRVYREPT

Step: 7

SORTIN DDNAME: SRVYPRC2 or PROCIN

Exhibit: PWSI.215,204,239,205

SORTOUT DDNAME: SRVYPRC3

PROC: VAEXSELT

Step: 1

SORTIN DDNAME: PROCIN

Exhibit: VAEX.214,207,215,216

SORTOUT DDNAME: VAEXPROC

Name: SORT06 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A

PROC: WAQCCOM1

Step: 4

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRCT

PROC: WAQCCOM1

Step: 6

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRCT

PROC: WAQCCOM1

Step: 9

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRCC

PROC: WAQCCOM1

Step: 11

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRCC

```
Name:      SORT06            Number of Lines: 1

Description:     Sort control card

         Sort Fields:  1,6,CH,A

    PROC: WAQCCOM2

              Step: 2

         SORTIN DDNAME:    PROCIN

              Exhibit:    WAQC.212

         SORTOUT DDNAME:   WAQCPRCI

    PROC: WAQCCOM2

              Step: 4

         SORTIN DDNAME:    PROCIN

              Exhibit:    WAQC.212

         SORTOUT DDNAME:   WAQCPRCI

    PROC: WAQCCOM2

              Step: 7

         SORTIN DDNAME:    PROCIN

              Exhibit:    WAQC.212

         SORTOUT DDNAME:   WAQCPRCO

    PROC: WAQCCOM2

              Step: 9

         SORTIN DDNAME:    PROCIN

              Exhibit:    WAQC.212

         SORTOUT DDNAME:   WAQCPRCA
```

```
Name:      SORT06            Number of Lines: 1

Description:     Sort control card

          Sort Fields:  1,6,CH,A

     PROC: WAQCCOM3

                Step: 2

          SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

          SORTOUT DDNAME:    WAQCPRCA

     PROC: WAQCCOM3

                Step: 4

          SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

          SORTOUT DDNAME:    WAQCPRCA

     PROC: WAQCCOM3

                Step: 7

          SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

          SORTOUT DDNAME:    WAQCPRCB

     PROC: WAQCCOM3

                Step: 9

          SORTIN DDNAME;     PROCIN

                Exhibit:     WAQC.212

          SORTOUT DDNAME:    WAQCPRCB
```

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                                                  Page 9 of 10
Name:      SORT06          Number of Lines: 1

Description:     Sort control card

           Sort Fields:  1,6,CH,A

      PROC: WAQCCOM4

                Step: 2

           SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

           SORTOUT DDNAME:    WAQCPRCR

      PROC: WAQCPSFU

                Step: 3

           SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.214,204

           SORTOUT DDNAME:    WAQCPRC1

      PROC: WAQCSAFS

                Step: 3

           SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

           SORTOUT DDNAME:    WAQCPRC3

      PROC: WAQCSAFS

                Step: 5

           SORTIN DDNAME:     PROCIN

                Exhibit:     WAQC.212

           SORTOUT DDNAME:    WAQCPRC3
```

Name: SORT06 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A

PROC: WAQCSAFS

Step: 7

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRC3

PROC: WAQCSAFS

Step: 9

SORTIN DDNAME: PROCIN

Exhibit: WAQC.212

SORTOUT DDNAME: WAQCPRC3

```
                                                   Page 1 of 1
Name:      SORT07          Number of Lines: 1

Description:     Sort control card

          Sort Fields:  139,30,CH,A

Used by the following procedures:

     PROC: OPERSELT

               Step: 3

          SORTIN DDNAME:    OPEROPRT

               Exhibit:     OPER.205

          SORTOUT DDNAME:   TEMPOMOR

     PROC: OPERSELT

               Step: 7

          SORTIN DDNAME:    OPEROPRT

               Exhibit:     OPER.205

          SORTOUT DDNAME:   TEMPOMOR
```

Name: SORT08 Number of Lines: 1

Description: Sort control card

Sort Fields: 115,30,CH,A

Used by the following procedures:

PROC: OPERSELT

Step: 5

SORTIN DDNAME: OPERDIRT

Exhibit: OPER.206

SORTOUT DDNAME: TEMPOMDR

PROC: OPERSELT

Step: 9

SORTIN DDNAME: OPERDIRT

Exhibit: OPER.206

SORTOUT DDNAME: TEMPOMDR

Name: SORT09 **Number of Lines:** 1

Description: Sort control card

Sort Fields: 98,30,CH,A

Used by the following procedures:

PROC: OPERSELT

Step: 7

SORTIN DDNAME: OPERMAIL

Exhibit: OPER.211

SORTOUT DDNAME: TEMPOMMA

Name: SORT10 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,7,CH,A

Used by the following procedures:

PROC: OPERUPDT

Step: 1

SORTIN DDNAME: TRANSIN

Exhibit: OPER.201,202,203,204

SORTOUT DDNAME: OPERTRAN

PROC: SRVYREPT

Step: 2

SORTIN DDNAME: VIP

Exhibit: WAQC.255

SORTOUT DDNAME: TEMPVIP

PROC: WAQCSCHD

Step: 1

SORTIN DDNAME: CARDIN

Exhibit: WAQC.244

SORTOUT DDNAME: WAQCSCHI

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Name: SORT11 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A,79,2,CH,A,8,9,CH,A

Used by the following procedures:

PROC: REGSCRET

Step: 1

SORTIN DDNAME: TRASIN

Exhibit: REGS.200,201,202,203,204,205,206,207,208

SORTOUT DDNAME: REGSTRAN

Name: SORT12 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,6,CH,A,8,10,CH,A

Used by the following procedures:

PROC: REGSCRET

Step: 4

SORTIN DDNAME: TEMPRGF

Exhibit: REGS.209 thru 216

SORTOUT DDNAME: RGF

Name: SORT13 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,30,CH,A,157,CH,D

Used by the following procedures:

PROC: SRVYREPT

Step: 4

SORTIN DDNAME: SRVYPRTY

Exhibit: SRVY.203

SORTOUT DDNAME: TEMPSRPR

PROC: SRVYREPT

Step: 5

SORTIN DDNAME: SRVYSCHD

Exhibit: SRVY.205

SORTOUT DDNAME: TEMPSRSC

Name: SORT14 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,26,CH,A

Used by the following procedures:

PROC: WAQCSAFD

Step: 1

SORTIN DDNAME: TRANSIN

Exhibit: WAQC.210

SORTOUT DDNAME: WAQCSAFT

Name: SORT15 Number of Lines: 1

Description: Sort control card

Sort Fields: 105,4,A,1,7,A,121,4,A,150,2,A,
146,4,A

Used by the following procedures:

PROC: WAQCSHD

Step: 3

SORTIN DDNAME: WAQCSCHD

Exhibit: WAQC.220

SORTOUT DDNAME: TEMPSCHD

Name: SORT16 Number of Lines: 1

Description: Sort control card

Sort Fields: 100,5,A,1,7,A,150,2,A,146,4,A,
121,4,A

Used by the following procedures:

PROC: WAQCSCHD

Step: 7

SORTIN DDNAME: WAQCSCHD

Exhibit: WAQC.220

SORTOUT DDNAME: TEMPSCHD

Name: SORT17 Number of Lines: 1

Description: Sort control card

Sort Fields: 100,5,CH,A,1,7,CH,A

Used by the following procedures:

PROC: WAQCSCHD

Step: 10

SORTIN DDNAME: WAQCLBL

Exhibit: WAQC.242

SORTOUT DDNAME: TEMPLBL

Name: SORT18 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,5,CH,A,79,2,CH,A,6,1,CH,A

Used by the following procedures:

PROC: WAQCLBTC

Step: 1

SORTIN DDNAME: TRANSIN

Exhibit: WAQC.201,202

SORTOUT DDNAME: WAQCTABL

Name: SORT19 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,11,CH,A

Used by the following procedures:

PROC: PWSIUPD1

Step: 1

SORTIN DDNAME: TRANSIN

Exhibit: PWSI.213,214,215,216,217,218,219,
220,221,222,223,224,225,226,227,
228,229,213

SORTOUT DDNAME: PWSITRAN

Name: SORT20 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,7,A,10,4,A,14,3,A,18,5,A,23,4,A

Used by the following procedures:

PROC: WAQCCOM1

Step: 2

SORTIN DDNAME: PSF

Exhibit: WAQC.252

SORTOUT DDNAME: TEMPPSF

Name: SORT21 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,37,A

Used by the following procedures:

PROC: WAQCCOM4

Step: 4

SORTIN DDNAME: TEMPSAFT/TEMPSAFO/TEMPSAFO/
TEMPSAFC/TEMPSAFA/TEMPSAFB

Exhibit: WAQC.252

SORTOUT DDNAME: TEMPSAF

PROC: WAQCCOM4

Step: 6

SORTIN DDNAME: WAQCPSF

Exhibit: WAQC.252

SORTOUT DDNAME: PSF

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Name: SORT22 Number of Lines: 1

Description: Sort control card

Sort Fields: 1,16,CH,A,17,1,CH,D,18,20,CH,A

Used by the following procedures:

PROC: WAQCCOM2

Step: 0

SORTIN DDNAME: PSF

Exhibit: WAQC.252

SORTOUT DDNAME: PSFI

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Name: SORT23 Number of Lines: 1

Description: Sort control card

Sort Fields: 100,5,A,1,7,A,150,2,A,146,4,A,
152,3,A,121,4,A

Used by the following procedures:

PROC: WAQCSCHD

Step: 3

SORTIN DDNAME: WAQCSCHD

Exhibit: WAQC.220

SORTOUT DDNAME: TEMPSCHD

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Name: SORT24 Number of Lines: 2

Description: Sort control card

Sort Format: 1,7,A,18,9,A,10,7,A,17,
1,D,27,11,A

PROC: WAQCCOM3

Step: 1

SORTIN DDNAME: PSF

Exhibit: WAQC.251

SORTOUT DDNAME: TEMPPSF

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END